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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT NANCY A. MALOLEY, Commissioner



105 South Meridian Street P.O. Box 6015

Indianapolis 46206-6015 Telephone 317-232-8603

August 1, 1988

VIA CERTIFIED MAIL - P 652 575 2258 EPA REGION VISION

Mr. William E. Laque Environmental Coordinator Rock Island Refinery 5000 West 86th Street Indianapolis, Indiana 46268

> Re: Part B Permit Application Rock Island Refinery Indianapolis, Indiana IND 006417430

Dear Mr. Laque:

Under the authorities of Indiana Rule 329 IAC 3-34-1 and 40 CFR 270.10, this is a formal request for submittal of an updated, amended Part B of the Resource Conservation and Recovery Act (RCRA) Hazardous Waste Permit Application for Rock Island Refinery. The revised application must incorporate all responses to previous Notice of Deficiency comments and any changes pursuant to the new tank regulations.

A RCRA Permit Application consists of two (2) parts, a Part A and a Part B. The Part A consists of the form your company submitted on November 18, 1980 and amended on February 27, 1985 to the U.S. Environmental Protection Agency (U.S. EPA). The Part A allowed your company to obtain "interim status," and to continue to operate the following hazardous waste management activities: tank treatment, TOI (3,456,000 gallons/day), tank storage, SO2 (6,000 gallons, and tank treatment TOI (1,640 gallons per day). On January 31, 1986, the Indiana Department of Environmental Management (IDEM) was authorized to implement the RCRA Program in lieu of the U.S. EPA. On November 18, 1980, Rock Island submitted their original Part B Application. The next step in the permitting process is for your company to submit the updated, amended Part B Permit Application to the IDEM and the U.S. EPA.

If your company has acted as a treatment, storage, or disposal facility (TSD) of hazardous waste at any time after November 19, 1980, and does not wish to continue to do so, then a closure plan must be submitted in lieu of the Part B Permit Application. The plan must be prepared in accordance with 329 IAC 3-21.

On November 8, 1984, the Hazardous and Solid Waste Amendments of 1984 (HSWA) were signed into law. This law amended RCRA, and contains additional provisions which may affect your company. The State of Indiana has not yet been authorized to administer the hazardous waste permit requirements of HSWA. Therefore, the final permit will contain a State portion prepared by the IDEM and a federal HSWA portion prepared by the U.S. EPA. One important HSWA provision mandates that interim status shall terminate unless the Part B Permit Application is submitted for a determination regarding issuance of a final permit. Another provision requires corrective action for all releases of hazardous wastes or constituents from any solid waste management unit at a TSD facility seeking a permit, regardless of the time at which waste was placed in the unit. The U.S. EPA will address these and other applicable provisions of HSWA during the permit review process.

Eight (8) copies of the application must be submitted and postmarked no later than one hundred eighty (180) days after the date of receipt of this letter. The original and six (6) copies of the application must be sent to:

Mr. Thomas E. Linson, Chief Plan Review and Permit Section Office of Solid and Hazardous Waste Management Indiana Department of Environmental Management 105 South Meridian Street P.O. Box 6015 Indianapolis, Indiana 46206-6015

The other two (2) copies must be sent to:

RCRA Activities
Part B Permit Application
U. S. Environmental Protection Agency
Region V
P.O. Box A3587
Chicago, Illinois 60690-3587

Attention: Mr. Hak Cho, Chief, Indiana Section

Please uniquely number each page of the application including all attachments (maps, specifications, etc.). A certification statement identical to the one stated in 329 IAC 3-34-2(d) and 40 CFR 270.ll(d) must accompany each application and all additional submittals.

Information submitted in the Part B Permit Application to the U.S. EPA can be disclosed to the public, according to the Freedom of Information Act and U.S. EPA Freedom of Information regulations. Information submitted to the IDEM can be disclosed to the public according to Indiana's Public Records Law, IC 5-14-3. If you wish, however, you may assert a claim of business confidentiality by printing the word "confidential" on each page of the application that you believe contains confidential business information. All

Mr. William E. Laque Page 3

incoming materials containing confidential information must be sent in a double envelope--one envelope inside the other. The inner envelope is to be addressed to the Docket Control Officer (DCO) with the following instructions: "To be opened only by the DCO."

The IDEM and the U.S. EPA will review business confidentiality claims under 320 IAC 6-1 (enclosed) and 40 CFR Part 2, respectively, and may later request substantiation of such claims. Please review these rules carefully before making a claim. If you claim parts of your application as confidential, also provide a public information copy of the application. The public information copy must be identical to the full application excluding the confidential information.

A copy of our "Part B Completeness Checklist" is enclosed; it will assist you in preparing a comprehensive and complete permit application.

The IDEM and the U.S. EPA are committed to jointly conducting the permitting process as efficiently as possible, and will strive for the simultaneous issuance of the federal and State portions of the final RCRA permit. I suggest you contact Ms. Linda Bobo of this office at AC 317/232-3292 as you begin preparing your application.

Sincerely,

Jane Magee

Assistant Commissioner for

are Magee

Solid and Hazardous Waste Management

LB/rmw

Enclosures: Part B Completeness Checklist

cc: Marion County Health Department Mr. Hak Cho, U.S. EPA, Region V

Mr. Bernie Orenstein, U.S. EPA, Region V



ROCK ISLAND REFINING



February 13, 1986

Mr. David A. Stringham Chief, Solid Waste Branch United States Environmental Protection Agency Region V 230 South Dearborn Street Chicago, IL 60604



SOLID WASTE DRANGH U.S. EPA, REGION V

RE: Hazardous Waste Permit Application (5HS-JCK-13)

Dear Mr. Stringham:

We were indeed perplexed when we received you letter of January 16, 1986, witch attached Certification Begarding Potential Releases From Solid Waste Management Units (hereafter "Certification Form"), requesting Rock Island Refining Corporation to complete the enclosed Certification Form since as an identical Certification Form and request had been submitted to Rock Island by letter of May 3, 1985, from Karl J. Klepitsch, Jr., Chief, Solid Waste Branch, Region V.

On May 9, 1985, Rock Island requested Edith Ardiente, Chief, Technical Programs Section, Region V, for an extension of time in which to complete and otherwise respond to the Certification Form. In her letter of June 13, 1985, Ms. Ardiente reported to William E. Laque, Coordinator of Environmental Affairs, that Rock Island was being granted an extension of time until June 17, 1985, in which to complete its response to the Certification Form.

Rock Island has timely responded in this matter, having filed the completed Certification Form with EPA on June 17, 1985. Rock Island is providing to EPA another copy of the Certification Form and cover letter of June 17, 1985. The June 17 submission is attached as Exhibit A.

ROCK ISLAND REFINING CORP.

Mr. David A. Stringham February 13, 1986 Page 2

Please call George W. Pendygraft, Esq., (317/264-1784), Baker & Daniels, Indianapolis, Indiana, or the undersigned if you have any questions or need of additional information with respect to this matter.

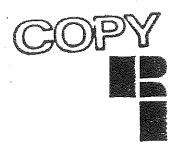
Very truly yours,

William E. Laque

Coordinator, Environmental Affairs

WEL:jw

attachment



ROCK ISLAND REFINING

Corporation

CERTIFIED MAIL RETURN RECEIPT REQUESTED

June 17, 1985

Ms. Edith M. Ardiente, P.E. Chief, Technical Programs Section U.S. EPA, Region V RCRA Activities P. O. Box A3587 Chicago, Illinois 60604

Re: Corrective Action Requirements,
Hazardous and Solid Waste Amendments of 1984
(5HS-12)

Dear Ms. Ardiente:

Enclosed is a signed copy of the Certification Regarding Potential Releases from Solid Waste Management Units at the Rock Island Refining Corporation (IND 006417430), Indianapolis, Indiana. It is Rock Island's belief that there are no releases of hazardous waste or constituents from any solid waste management units at the refinery and thus no corrective actions are required.

Rock Island has submitted its Part B permit application for the hazardous waste activities at the refinery and is presently preparing responses to a Notice of Deficiency issued by Region V. Rock Island believes that the enclosed Certification must be considered in light of not only the Part B application but also the EPA's Notice of Deficiency and Rock Island's anticipated responses to that Notice of Deficiency. For example, it is Rock Island's belief that the "informal delisting" issued in March, 1982, has the effect of precluding any enforcement action the EPA might initiate regarding wastes included in such informal delisting. Because of the uncertainty created by the status of Rock Island's Part B permit application, Rock Island reserves the right to

Ms. Edith M. Ardiente, P.E. -2-

June 17, 1985

supplement or amend the enclosed Certification should that prove to be appropriate at a later date.

Please call the undersigned if there are questions concerning the enclosed Certification.

Very truly yours,

William E. Laque

Environmental Coordinaror

WEL:kjr

Roy Wogelius CC

George W. Pendygraft, Esq.

CERTIFICATION: REGEREIN'S POTENTIAL RELEASES FROM. SOLID WASTE MANAGEMENT UNITS

FACILITY WAME:	Rock Island Refining Corp.
EPA 1.D. NUMBER:	IND 006417430
LOCATION CITY:	Indianapolis (5000 West 86th Street)
STATE:	Indiana (46268-1601)
•	
w ta lhazafa	y of the following solid waste management units (existing or our facility? - NOTE - DO NOT INCLUDE HAZARDOUS WASTES UNITS OWN IN YOUR PART B APPLICATION
	AEZ NC
• Land Far • Waste Pi • Incinera • Storage • Storage • Contain • Injectio • Wastewa • Transfer • Waste Ri • Waste Transfer	Impoundment To the tor tor to the total trank (Above Ground) Tank (Underground) Tank (Underground) Tank Storage Area Tank (With the total trank) Tank (Underground) Tank (Underground)
	Refer to Addendum 1
appendikantan da	
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NOTE: Hazardous waste are those identified in 40 CFR 261. Hazardous constituents are those listed in Appendix VIII Of 40 CFR Part 261.

3. For the units noted in Number 1 above and also those hazardous waste units in your Part R application, please describe for each unit any data evailable on any prior or current releases of hazardous wastes or constituents to the environment that may have occurred in the part or still be occurring. Please provide the following information a. Date of release Type of waste released c. Quantity or volume of waste released d. Describe nature of release (i.e., spill, overflow, ruptured pipe or tank . etc.) July 23, 1980 40,000-gallons d. Overflow of east sediment and water pond (no longer in existence) during very heavy rains into run-off system and and out NPDES 003 outfall. In regard to the prior releases described in Number 3 above, please provide (for each unit) any analytical data that may be available which would describe the nature and extent of environmental contamination that exists as a result of such releases. Please focus on concentrations of hazardous wastes or constituents present in contaminated soil or groundwater. The only analyses that exist are for the sludge in the Those data are attached as sediment and water pond. The overflow was cleaned up to the satisfaction Addendum 2. of all agencies involved (U.S. EPA and State of Indiana).

l certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the submittal is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. (42 U.S.C. 6902 et seq. and 40 CFR 270.11(d))

William E. Laque, Environmental Coordinator
Typed Ware and litle

ag na June 17, 1985

ADDENDUM 1

	Itee	Description of Wasts	RCRA Haterdous Waste	Approximate Quantities/ Yolums of Waste	Date of Disposal	Capacity	Dimensions/Area	Location at Facility	
(liboa,	1. Asphalt	Very heavy Oil with Pines	No	260-300 yan	1950's	200 Aqu ₃	i scre	Northwest corner of rainery (Reported on Part A)	
	2. Concrete, Debtis	Cancrete debrie from Demotition	No	Unknown	Unknown — 1960	Unknows	3 scree	Refinery property south of State Rd 100 (Reported on Part A)	
Surface	1. East	Sediments and water pends	No	8300 yda ³		5500 yds ³	23,100 ft ³ x 6 ft	Tenk farm area of refinery (Reported on Part A)	
Impoundment	2. West	Sediments and water pends	No	3600 yas ³		\$750 yd=3	16,438 ft ² x6 ft	Tank farm area of refinery (Reported on Part A)	
Land Ferm		One time farming of sodiments and water	.No	6000 yds	1983-1982	greater then 8000 yds	30 mcres	Refinery tank farm (Reported on Part A)	
Waste Pile		Not applicable							
Incineration		Not applicable							
Storage Tank (at	oove ground)	Not applicable	Not applicable						
Storage Tank (w		Not applicable							
Container Stora		Not applicable							
Injection Wells		None April April April April Western side of tank farm area (Reported on							
Waste Water Treatment Unit	Aeration pands, 6 pands in series	Westowstore	No	4.5x10 ⁶ gal		4.6x 10 ⁶ gal	#2 70'x80'x8' #2 70'x80'x8' #3 137'x170'x6' #4 137'x90'x6' #5 124'x90'x6' #6 Trapezoid 180',251',261'x6'	Part A)	
Waste Recycling	Operations	Not applicable							
Transfer Stations		Nane			· · · · · · · · · · · · · · · · · · ·	1			
Weste Treatme (Detoxificatio		Tetra Ethyl Leed Contaminated material	No	Unknown	Prior to 1980		10 acres	porth and of tank form	
Other (staging		Vacuum filter cake	Кo	60 yd3		Unknown	30' 1 30'	Tenk form area of refinery	
(B B									

	13 1090
EMS : Atories Company REPORT DATE August 27, 1980 DATE RECEIVED August	13, 1304
7901 We. Aorris Street FMS SAMPLE # 17834	Marie Anna Communication of the Communication of th
P.O. Box 41371 Indianspolis, Indians 46241 P.O. N. 37563-880 SAMPLE TYPE GRAB (317) 243-8304	COMPOSITE
SAMPLE DESCRIPTION DRINKING WATER	ı
SAMPLE SOURCES Rock Island Refining Corporation WASTE WATER 5000 West 86th St.	. 1
PO Box 68007 BILL TO: Indianapolis, Indiana 46268 Sludge OTHER	The state of the s
Attn: Bill Laque COLLECTED BY DATE SAMPLED	
RESULTS DATE ANALYZED	F ANALYSIS
East B S & W Lagoon - Sample analyzed on as received basis 8-26 G. Klingler Electrode	method
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Bhorols 8.8 µg/gr 8-26 C. Mueller Colorimet	
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Sulfate on filtered H ₂ O 288 µg/gr 8-18 T. Jones Atomic ab	sorption
Nickel 7 pg/gr 8-18 T. Jones Atomic ab Copper 9-18 T. Jones Atomic ab	sorption sorption
Chromium 232 pg/gr 8-18 T. Jones Atomic ab Zinc 8-18 T. Jones Atomic ab	sorption

8-18

8-18

8-19

8-25

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DATA REVIEWED BY

T. Jones

G. Klingler

C. STEVEN GOHM

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Titrimetric-iodine

Flameless atomic absorpti

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REMARKS:

Lead

Silver

Aluminum

Mercury

Arsenic

Barlum

Selenium

Vanadium

Sulf1de Sample Prep

EMS 1 1 2	ries Company	REPORT DATE	August 2	27, 1980	_ DATE RECEIVED_	August	13, 1980	
7901 Waлоггів Str. P.O. Bux 41371	, ,	EMS SAMPLE #	1783		**************************************			
120. Box 41371 Indianapolia, Indiana 48241 (317) 243-8304		P.O. #_37563-880		SAMPLE TYPE	_GRAB	_COMPOSITE		
SAMPLE SOURCES	Rock Island Refining	SAMPLE DESCRIPT	TION	·	DRINKING	WATER		,
	5000 West 86th St.				WASTE W	ATER	8	•
BILL TO:	PO Box 68007 Indianapolis, Indiana Attn: Bil Laque	46268	****	Sludge	OTHER	grading — — y — up.— y — tyskiid	ggyndefy tronge e mahadest Schlieberg (der erret halven die Schliebe t Ussillend	KINGS OF THE STATE
		COLLECTED BY			DATE SAMPLED_		eaconomic in the second se	NATIONAL PROPERTY.

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Mercury Arsenic Selenium Barium Vanadium Sulfide Sample Prep charge	≤ 0.06 µg/ ≤ 27 µg/ ≤ 51 µg/ 142 µg/ ≤ 10 µg/ ✓ 5 µg/	gr 8-25 gr 8-25 gr 8-18 gr 8-18	T. Jones T. Jones T. Jones T. Jones T. Jones G. Klingler	Flameless atomic absorpti Flameless atomic absorpti Atomic absorption Atomic absorption Titrimetric-iodine

HEMARKS:

DATA REVIEWED BY:_

C STEVEN GOHMA

EMS Labor for	las Company	REPORT DATE September	22, 1980 DATE RECE	iveo August 13, 1980	norm later
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P.O. Box 413/1 Indianapolla, Indiana	46241	P.O. # 37563-880		PE GRAB COMPOSITE	TICKET
(317) 243-8304	and the second of the second o		-		
SAMPLE SOURCES	Rock Telend Rifining C	SAMPLE DESCRIPTIONorporation	DR.	NKING WATER	
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117834 - East La	<u> </u>		•		
Total Solids	31 %	9-19-80	C. Burton	Gravimetric	16.50
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		DATA PEVIE	WED BY	KAK.	\$33.00
HEMAP"S:			1 04 70 40 1	C. STEVENEROHMANN	٨

EMS / Oratories Company 7901 Web_lorris Street P.O. Box 41371 Indianapolis, Indiana 45241 (317) 243-8304			1980 DATE RECEIVED August 13, 1980
		EMS SAMPLE #	SAMPLE TYPEGRABCOMPOSITE
	re ga	SAMPLE DESCRIPTION	DRINKING WATER
Rock Island Refinin 5000 West 86th St.		Corporation	WASTE WATER
BILL TO:	PO Box 68007 Indianapolis, Indian	Le 46268	achate OTHER
Programme . At 1	Attn: Bill Laque	COLLECTED BY	DATE SAMPLED
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RAMETER	RESULTS	DATE	ANALYZED	ANALYST	METHOD OF ANALYSIS
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#17836 - East 17834 Cadmium Chromium Lead Silver Mercury Arsenic Selenium Barium Leachate Prep Charge	<pre></pre>	mg/1 mg/1 mg/1 mg/1 mg/1 mg/1 mg/1 mg/1	8-25 8-25 8-25 8-25 8-25 8-25 8-25 8-25	T. Jones	Atomic absorption Atomic absorption Atomic absorption Atomic absorption Flameless atomic absorpt Flameless atomic absorpt Flameless atomic absorpt Atomic absorption

*Note - Sample analyzed on as received basis.

DATA REVIEWED BY:

пемапкя:



STATE BOARD OF HEALTH

AN EQUAL OPPORTUNITY EMPLOYER



INDIANAPOLIS

Address Reply to: Indiana State Board of Health 1330 West Michigan Street P. O. Box 1964 Indianapolis, IN 46205-1964

REGEOVE

! July 31, 1985

Ms. Edith Ardiente, Chief Technical Programs Section Solid Waste Branch (5HS-13) U.S. EPA, Region V 230 South Dearborn Street Chicago, IL 60604

Dear Ms. Ardiente:

AUG 0 5 1985 SOLID WASTE BRANCH U.S. EPA, REGION V

Re: Part B Permit Application Completeness Review Rock Island Refining Corporation Indianapolis, Indiana IND 006417430

The Plan Review and Permit Section has concluded the completeness check portion of the Part B permit application from Rock Island Refining Corporation.

The completeness review was started on July 19, 1985, and concluded on July 24, 1985. A total of 24 hours was spent reviewing the application.

Additional information is required from the applicant before a technical review can be initiated. Therefore, we recommend that the enclosed Notice of Deficiency (NOD) be issued to the applicant and that further evaluation be deferred until the applicant responds to the NOD.

The facility's application reflects the "temporary exclusion" and "informal delisting" granted by the U.S. EPA on March 11, 1982, for waste codes KO49, KO50, and KO51. Therefore, none of the facility's hazardous waste units handling these waste codes are provided for the revised Part A or Part B permit application.

The items found deficient in the permit are noted in the attached Notice of Deficiency. The number of each deficiency noted corresponds to the number listed in the enclosed initial May 16, 1985, Notice of Deficiency to Rock Island Refining Corporation prepared by Mr. Roy Wogelius of your staff.

Please refer all questions regarding the completeness review to the State Permit Writer, Ms. Cynthia Hall, at AC 317/243-5093.

Very truly yours,

Terry F. Drug

Terry F. Gray, Chief Plan Review and Permit Section Hazardous Waste Management Branch Division of Land Pollution Control

CBH/tr Enclosures cc: Mr. Kenneth Burch, U.S. EPA, Region V

Rock Island Refining Corporation IND 006417430 Second Completeness Review Notice of Deficiency

Item IV. Part A Deficiencies.

- 1. -- The land application area, listed in the Refinery's original Part A dated November 18, 1985, was not addressed on the revised Part A.
 - -- The basic sediment and water ponds (TO2) were not addressed.
 - -- The aeration lagoons (TO2) were not addressed.

2. Topographic Map

- -- A revised topographic map was not provided.
- -- Photographs of the facility legibly showing structures, hazardous waste units, etc., were not provided.
- -- The process codes and design capacities section (Form 3.III.B.) were not provided.

Item V. Part B Requirements.

2. -- Waste Analysis Plan. The revised plan did not address the frequency of analysis or describe the sampling procedure. However, the original Part B references that the sampling and analyses are conducted according to 40 CFR 261 and 264.

4. General Inspection Schedule

-- The aeration lagoons, basic sediment and water ponds, and land application area were not included in the inspection schedule.

6. Contingency Plan

-- Documentation showing the qualifications and authority of those designated as emergency coordinators was not provided. A general statement of what is required of the coordinator was given. However, a resume, training record, etc., were not provided.

7. Detailed Emergency Procedures

 A description of cleanup procedures and associated material testing, etc., was not provided.

- 8. Surface impoundment contingency plan requirements were not provided.
- 9. Preventive Procedures, Structures, and Equipment.
 - A description of the equipment and procedures to be used to prevent runoff and flooding were not provided.
 - -- A general description of the power failure policy for the facility was provided. However, shutdown procedures and instructions on how to transfer power or who to contact was not provided.
- 10. Traffic Patterns. A map documenting waste movement was provided; however, the quantity of waste per movement per vehicle was not given.
- 14. Closure plan requirements for the surface impoundments and land treatment area were not met.
- 15. Post-closure plan documentation was not provided for the land treatment area and surface impoundments.
- 16. Documentation that a notice has been placed on the facility's deed indicating that the land had been used to manage hazardous waste was not provided.
- 17. Post-closure cost estimates were not provided.
- 18. Documentation of insurance for non-sudden accidents was not provided.
- 19. A detailed topographic map containing all of the items required by 270.14(b)(19) was not provided.
- 20. Specific Part B requirements for the surface impoundments and the land treatment area were not provided.

JUL 1 2 1935

Wir Pack Island Defiains Corporation

TH.191

War ir. Wyle:

Enclosed please flow three (3) cooles of the Bock Island Perining

Corporation's response to the inited States Covingonapatel Protection

Adenty's (U.S. 1981 Matice of Definiency (The) for that facility's

Casource Conservation and Decavery Act (2004) Park B becardous wester

cemit application dated hay 16, 1986.

In a material should be reviewed for completeness and either a second

and Tibal Tib Hill be issued or the application will be deemed complete.

Tour review of this information should be concluded withis 30 days

after the receipt of this letter.

Flease contact Tr. Toy Royaltes of my staff at (312) 1005-1275. It was

have any questions concerning this matter,

Stacerely mours,

TARIST ALUHOR STILL ALUTE STILL AS THE WANGE WAND.

CHIEF CH

298-79





ROCK ISLAND REFINING

Corporation

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

REGETTED

June 17, 1985

JUN 21 1985

Ms. Edith M. Ardiente, P.E. Chief, Technical Programs Section U.S. EPA, Region V RCRA Activities P. O. Box A3587 Chicago, Illinois 60604

STEATE V

Re: Corrective Action Requirements, Hazardous and Solid Waste Amendments of 1984

(5HS-12)

Dear Ms. Ardiente:

Enclosed is a signed copy of the Certification Regarding Potential Releases from Solid Waste Management Units at the Rock Island Refining Corporation (IND 006417430), Indianapolis, Indiana. It is Rock Island's belief that there are no releases of hazardous waste or constituents from any solid waste management units at the refinery and thus no corrective actions are required.

Rock Island has submitted its Part B permit application for the hazardous waste activities at the refinery and is presently preparing responses to a Notice of Deficiency issued by Region V. Rock Island believes that the enclosed Certification must be considered in light of not only the Part B application but also the EPA's Notice of Deficiency and Rock Island's anticipated responses to that Notice of Deficiency. For example, it is Rock Island's belief that the "informal delisting" issued in March, 1982, has the effect of precluding any enforcement action the EPA might initiate regarding wastes included in such informal delisting. Because of the uncertainty created by the status of Rock Island's Part B permit application, Rock Island reserves the right to

Ms. Edith M. Ardiente, P.E.

-2-

June 17, 1985

supplement or amend the enclosed Certification should that prove to be appropriate at a later date.

Please call the undersigned if there are questions concerning the enclosed Certification.

Very truly yours,

William E. Laque

Environmental Coordinator

WEL:kjr

cc Roy Wogelius

George W. Pendygraft, Esq.

ADDENDUM 1

	liem .	Description of Waste	RCRA Hazardous Waste	Approximate Quantities/ Volume of Waste	Date of Disposal	Capacity	Dimensions/Ares	Location at Facility
Landfill	1. Asphalt	Very heavy Oil with Fines	No	250-200 yds ⁸	1950's	300 Agr ₂	1 всев	Northwest corner of refinery (Reported on Part A)
	2. Concrete, Debris	Concrete debris from Demolition	No	Unknown	Unknown 1980	Unknown	3 асгея	Refinery property south of State Rd 100 (Reported on Part A)
Surface	1. East.	Sediments and water ponds	No	6300 yds ³		5500 yda ³	23,100 ft ² x 6 ft	Tank farm area of refinery (Reported on Part A)
Impoundment	2. West	Sediments and water ponds	No .	3600 yds ³		3750 ydu ³	15,438 ft ² x6 ft	Tank farm area of refinery (Reported on Part A)
Land Farm		One-time farming of sediments and water	No	4000 yda ⁸	1981-1982	greater then 8000 yds	30 acres	Refinery tank farm (Reported on Part A)
Waste Pile	*	Not applicable				10,000		
Incineration		Not applicable			-			
Storage Tank (a)	oove ground)	Not applicable						Artificia Artifi
Storage Tank (u	nderground)	Not applicable						
Container Stora		Not applicable	1,11	1-10-1-1-1-1-1	a agent a N	·.		
Injection Wells		None	*			1.5		
Waste Water Treatment Unit	Acration ponds, 6 ponds in series	Wastewaters	No	4.5x10 ⁸ gal		4.6x 10 ⁶ gal	#170'x90'x6' #270'x90'x6' #3132'x170'x6' #4132'x90'x6' #5124'x90'x6' #6 Trapezoid 180',251',261'x6'	weatern side of tank farm area (Reported on Part A)
Waste Recycling	Operations	Not applicable						
Transfer Station		None						
Waste Treatmer (Detoxification) 2)	Tetra Ethyl Lead Contaminated material	No	Unknown	Prior to 1980		10 acres	north end of tank farm
Other (staging a	rea)	Vacuum filter cake	OM:	60 yd ⁵		Unknown	30'x 30'.	Tank farm area of refinery

CERTIFIC ION REGARDING POTENTIAL RELEAS FROM SOLID WASTE MANAGEMENT UNITS

FACILITY NAME: Rock Island Re	efining Corp.
EPA I.D. NUMBER: IND 006417430	
LOCATION CITY: Indianapolis (5000 West 86th Street)
STATE: Indiana (462	68-1601)
	lid waste management units (existing or DO NOT INCLUDE HAZARDOUS WASTES UNITS PLICATION
	YES NO
provide a description of the wast of in each unit. In particular, would be considered as hazardous a RCRA. Also include any available disposed on and the dates of disposed of each unit and include capacity	X
a site plan if avaliable. Refer to Addendum 1	
Company of the control of the contro	

NOTE: Hazardous waste are those identified in 40 CFR 261. Hazardous constituents are those listed in Appendix VIII Of 40 CFR Part 261.

3. For the units noted in Number 1 above and also those hazardous waste units in your Part P application, please describe for each unit any data available on any prior or current releases of hazardous wastes or constituents to the environment that may have occurred in the part or still be occurring.

Please provide the following information

- a. Date of release
- b. Type of waste released
- c. Quantity or volume of waste released
- d. Describe nature of release (i.e., spill, overflow, ruptured pipe or tank, etc.)
 - a. July 23, 1980
 - b. Oil
 - c. 40,000 gallons
 - d. Overflow of east sediment and water pond (no longer in

existence) during very heavy rains into run-off system and

and out NPDES 003 outfall.

In regard to the prior releases described in Number 3 above, please provide (for each unit) any analytical data that may be available which would describe the nature and extent of environmental contamination that exists as a result of such releases. Please focus on concentrations of hazardous wastes or constituents present in contaminated soil or groundwater.

The only analyses that exist are for the sludge in the sediment and water pond. Those data are attached as Addendum 2. The overflow was cleaned up to the satisfaction of all agencies involved (U.S. EPA and State of Indiana).

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the submittal is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. (42 U.S.C. 6902 et seq. and 40 CFR 270.11(d))

William E. Laque, Environmental Coordinator

Typed Name and Title

Cionature

June 17, 1985 Date

AAGE EN EN AANEE		REPORT DATE	st 27, 1980	DATE RECEIVED_	August 13, 1900
7901 We Morris Str	ries Company	EMS SAMPLE #	* J		
P.O. Box 41371 Indianapolis, Indiana (317) 243-8304	46241	P.O. # 37563-880		SAMPLE TYPE	GRABCOMPOSITE
		SAMPLE DESCRIPTION		DRINKING	WATER
SAMPLE SOURCES	5000 West 86th St.	Corporation	·	WASTE W	ATER
BILL TO:	PO Box 68007 Indianapolis, Indiana	46268	Sludge	OTHER	i de la companya de l
	Attn: Bil Laque	COLUMN BY	•	DATE SAMPLED_	

PARAMETER	RESULTS	DATE ANALYZED	ANALYST	METHOD OF ANALYSIS
West B S & W Lagoon - Samp	le analyzed on a 8.0	8 – 26 .	G. Klingler	Electrode method
% 0il App Cyanide	x. 20 % by vol 9 µ	ume 8-26 g/gr 8-15	G. Klingler D. McConnaha	Distillation + barbituric acid colorimetric
Phenols Total Kjeldahl Nitrogen Chloride on filtered H ₂ 0 Sulfate on filtered H ₂ 0 Cadmium Nickel Copper Chromium Zinc Lead Silver Aluminum Mercury Arsenic Selenium Barium	8.5 1191 128 20 1.4 22 134 255 516 80 0.3 1600 < 0.06 < 27 < 51 142	### 8-26 ####################################	C. Mueller M. Bidwell C. Mueller C. Mueller T. Jones	Colorimetric 4AAP Digestion + distillation Mercuric nitrate Turbidimetric Atomic absorption Flameless atomic absorpti Flameless atomic absorpti Flameless atomic absorpti Atomic absorption Atomic absorption Atomic absorption Atomic absorption Atomic absorption Atomic absorption
Vanadium Sulfide Sample Prep charge		ug/gr 8-21	G. Klingler	Titrimetric-iodine

DATA REVIEWED BY:

REMARKS:

Addendum 2

C. STEVEN GOHMA REPORT COPY

STEVEN GOHMANN

EMS / rato	ories Company	REPORT DATE Au EMS SAMPLE # 17		DATE RECEIVED	August 13, 1980
indianapolis, Indiana (317) 243-8304	46241	P.O. # <u>37563-880</u>		SAMPLE TYPE	GRABCOMPOSITE
, ,		SAMPLE DESCRIPTION_		DRINKING	3 WATER
SAMPLE SOURCES	Rock Island Refining 5000 West 86th St.			WASTE W	/ATER
BILL TO:	PO Box 68007 Indianapolis, Indiana	46268	Sludge	OTHER_	·

COLLECTED BY...

Attn: Bill Laque

REMARKS:

PARAMETER RESULTS DATE ANALYZED ANALYST METHOD OF ANALYST	1
Rast B S & W Lagoon - Sample analyzed on as received basis pH 7.8 7.8 8-26 G. Klingler Z 0i1 Appx. 10 % by volume 8-26 G. Klingler Distillation + R Appx. 10 % by volume 8-26 G. Klingler Distillation + R Appx. 10 % by volume 8-26 G. Klingler Distillation + R Appx. Distillation + R Distillation + R Distillation + R Distillation + R Appx. Distillation + R Distillati	oarbituric ic AP tillation e on on on on on on on on c absorpti c absorpti c absorpti

DATA REVIEWED BY:

C. STEVEN GOHM REPORT COPY

DATE SAMPLED.

P.O. Box 41371 Indianapolis, Indiana 46241 (317) 243-8304	EMS SA	MPLE # 17835 -17836 37563-880	DATE RECEIVED August 13, 1980 SAMPLE TYPE GRAB COMPOSITE
5000 We PO Box	land Refining Corporatest 86th St.	DESCRIPTIONLeacha	DRINKING WATER WASTE WATER OTHER
		OTED BY	DATE SAMPLED
Analyses performed ac	cording to 40 CFR 261		ANALYST METHOD OF ANALYSIS

	PARAMETER	RESULTS	D	ATE ANALYZED	ANALYST	METHOD OF ANALYSIS
Addendum	#17835 - West 17833 Cadmium Chromium Lead Silver Mercury Arsenic Barium Leachate Prep charge Selenium #17836 - East 17834	0.02 0.13 <0.2 <0.01 <0.0005 <0.5 0.8 <0.5	mg/1 mg/1 mg/1 mg/1 mg/1 mg/1	8-25 8-25 8-25 8-25 8-25 8-25 8-25	T. Jones Flameless atomic a T. Jones Atomic absorption T. Jones Flameless atomic a	Atomic absorption Atomic absorption Atomic absorption Flameless atomic absorptic Flameless atomic absorptic
2	Cadmium Chromium Lead Silver Mercury Arsenic Selenium Barium Leachate Prep Charge	<pre></pre>	mg/1 mg/1 mg/1 mg/1 mg/1 mg/1 mg/1	8-25 8-25 8-25 8-25 8-25 8-25 8-25	T. Jones	Atomic absorption Atomic absorption Atomic absorption Atomic absorption Atomic absorption Flameless atomic absorption Flameless atomic absorption Flameless atomic absorption Atomic absorption

*Note - Sample analyzed on as received basis.

DATA REVIEWED BY:

C. STEVEN GOHMANN

REMARKS:

1 C 2 b

MAR 04 1985

Mr. William Laque Environmental Coordinator Rock Island Refinery Corporation 5000 West 86th Street Indianapolis, IN 46268

Dear Mr. Laque:

Re: Permit Writer's Site Visit
Rock Island Refinery, Indianapolis
IND 006417430

This letter is pursuant to the January 29 and January 30, 1985, Permit Writer's Site Visit (pursuant to EPA Part B permit application) conducted by Ms. Cynthia Hall of my staff. Ms. Hall was accompanied by Mr. Dave Koepper and Mr. Tom O'Leary of our Compliance Monitoring Section.

The Permit Writer's Site Visit was conducted so that:

- 1. The permit writer would have an understanding of the facility's hazardous waste management practices; and
- 2. The permit writer may provide technical assistance to the Part B applicant.

Ms. Hall's permit writer's site visit confirmed the following regarding Rock Island Refinery Corporation's hazardous waste management practices:

- 1. The SRU-Incinerator combusts tail gas from the Claus Sulfar Recovery Unit. The unit is not a hazardous waste incinerator but an air pollution control device. The Part A permit must be revised to reflect that (TO3) incinerator process is not applicable.
- 2. The sludges generated (K049, K050, K051) are accumulated and dewatered via a vacuum filter. This dewatering process is not considered "treatment" pursuant to 40 CFR 260 Subpart B. The Part A permit must be revised to reflect that (T04) physical treatment is not applicable. Rock Island Refinery was issued an temporary exclusion of K049, K050, and K051 by the U.S. Environmental Protection Agency on March 12, 1982. Temporary delisting by the Indiana State Board of Health was granted provisionally for a variance of the aforementioned hazardous waste on February 7, 1983. The facility is preparing documentation to apply for total delisting. Submittal of documentation to U.S. EPA is proposed by August 1985.

- 3. Basic sediments (D81) and application of sludges occurred after November 19, 1980, but they had been tested for hazardous waste characteristics and found to be non-hazardous.
- 4. The API Separator is listed in the Part A permit as tank treatment. The API Separator is part of the facilities closed loop process and therefore is not considered tank treatment. The Part A must be revised accordingly.
- 5. The sludge (K049, K050, K051) generated from the vacuum filter is contained in a roll off dumpster and is manifested off-site within 90 days. However, this waste is covered by a temporary delisting variance.

The present RCRA status of Rock Island Refinery Corporation appears to be that of a storage facility for the tanks holding API Separator sludges prior to dewatering.

If you have any questions regarding this matter or require additional information, please contact Ms. Cynthia Hall of my staff at AC 317/243-5093.

Very truly yours,

Terry F. Dray

Terry F. Gray, Chief Plan Review and Permit Section Hazardous Waste Management Branch Division of Land Pollution Control

CBH/sk

cc: Mr. Dave Koepper, ISBH

Mr. Martin Hamper, U.S. EPA, Region V

Mr. Ken Burch, U.S. EPA, Region V

sk 1138B 2/27/85

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CERTIFIED MAIL- HE WESTED

Mr. William Laque Environmental Coordinator Rock Island Refining Corporation 5000 West 86th Street Indianapolis, Indiana 46268

> Re: Rock Island Refining Corporation 5000 West 86th Street Indianapolis, Indiana 46268 180006417430

Dear Mr. Laque:

By now you should have received an acknowledgement of our receipt of the Part A permit application material for the above-referenced hazardous waste facility under the Resource Conservation and Recovery Act (RCRA) permit program. Accordingly, this letter constitutes the hext step in the formal process leading toward issuance or denial of a RCRA permit. Under the authority of 40 CFR 270.10, this is a formal request for submittal of Part B of the permit application for the above-referenced facility.

Enclosed is a copy of 40 CFR 270.14, which lists the items required for submitting the Part B permit application for the facility. The Part B application must be submitted in quadruplicate and postmarked no later than 3cbusy 28, 1985, The original and 3 copies of the application must be sent to the United States Environmental Protection Agency (W.S. EPA) at the andress below. Please uniquely number each page of the application including all attachments (maps, specifications, etc.). A certification statement identical to the one stated in 40 CFR 270.11(d) must accompany the application and all additional submittals. Send your application to the following address:

RCRA ACTIVITIES

Part B Permit Application

U.S. EPA, Region V

P.O. Box A3587

Chicago, Illinois 60690-3587

We are committed to conducting the FCRA permitting process as efficiently as possible. Consequently, I suggest you contact Mrs. Edith Ardiente of my staff, at (312) 886-0984, as you begin preparing your application. Mrs. Ardiente will be available to discuss specific needs of your application or to meet with you in Chicago. These efforts are intended to generate complete applications, without requiring any information beyong that which is necessary to make RCRA permit decisions.

Fallume to furnish the complete fart a permit application by the doore wit. and to provide in full all required information, is provide for termination of interior status under du CPE 270, 10.

information in the Part & permit implication can be discussed to the realist according to the Freedom of Information Act and U.S. I'M Freezes of Information regulations. If you wish, however, we pay assert a claim of business confidentiality by printing the word "Confidential" on each page of the applicacation which you believe contains confidential business information, All incoming materials containing confidential business information should be sent is a decole savelous-one envalue inside its tile; The insertant is in he addressed to the lacket Centrol Officer (DT) with the following instructions: Tie he opened only by the Kil.

U.S. EPA will review business confidentiality claims when regulations in 40 CFR Part 2, and may later request substantiation of Suce claims. Please review these rules carefully before making a claim. If you claim parts of your application as confidential, blease provide us with a public information cay of the application. The partic information copy sust be identical to the full application with the exclusion of the confidential information.

he have also enclosed a copy of \$0 CFP Part 20%, which includes technical standards for the operation of treatment, storage, and land disposal facilities.
These standards will become applicable to your facility worn issuance of a KCSA permit by H.S. EPA. A Copy of our "bullence For Permit Medication Preparation" and "Part 3 Completeness Checklist" are also enclosed, they will help you in preparing a comprehensive and complete permit application.

is will coordinate review of the application with the Indiana State Board of Wealth (155%), and will strive for the similteneous descende of federal and itsate hazardous weste facility defeits. It is possible that during the procession of the application, the State hemirens waste program was become authorized to issue RCEA permits for your type of facility. In that case, direct Federal processing will coase, and ISEM in lieu of U.S. Eff will make the final determination on tear perent application.

he look forward to receiving your Part & permit application.

Sincerely yours,

Ref d. Kiedtsch. dr., Colef Weste Fanacement Scanca

Enclosings: 40 CFS 270 (soplicable parts)

in CFR 764 (analysis) and a

Enicance For Permit Application Premaration

Part & Completeness Checklist

ec: Haridian, ISH

A.E. Webb. So. W.P. 1994.

bet: Part Alfile

Ken Burch, CHO:

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AUTHOR STU AND STU AZ I STU AZ CRIER

TPS KICHIEF

WWI DIRECT



STATE BOARD OF HEALTH

AN EQUAL OPPORTUNITY EMPLOYER

Mr. William Minor, Chief Technical, Permit, and Compliance Section U.S. EPA, Region V 230 South Dearborn Street Chicago, IL 60604

Dear Mr. Minor:



INDIANAPOLIS

Address Reply to: Indiana State Board of Health 1330 West Michigan Street P. O. Box 1964 Indianapolis, IN 46206-1964

APR 12 1985

APR 12 1985

HW FB

Re: Part B Permit Application for Rock Island Refining Corporation IND 000641730

We have conducted a completeness review of the above-referenced facility's Part B permit application. Our review found the application to be incomplete of the required information. Attached is a copy of the notice of deficiency.

Please note that the Part B permit application addresses only the hazardous waste processes contained in their February 28, 1985, revised Part A permit application. The process codes contained in the original Part A application were not addressed. Subsequently, the attached notice of deficiencies reflect the contents of the Part B permit application pursuant to the revised Part A.

Deficiencies contained in the Financial Assurance component of the application have been addressed by Mr. Jeff Stevens, staff attorney. (See attached March 22, 1985, Tetter.)

Furthermore, Appendix F and Appendix G, Financial Assurance sections, were marked as being confidential information. However, these pages were submitted in the application. No claim of confidentiality was included and the stamped pages were not separately sealed. Therefore, the information was made public.

Please contact Ms. Cynthia Hall of my staff at AC 317/243-5093 if you have any questions.

Very truly yours,

Terry F. Gray, Chief
Plan Review and Permit Section
Hazardous Waste Management Branch
Division of Land Pollution Control

CBH/sk

cc: Mr. Kenneth Burch, U.S. EPA, Region V

Mr. Hak Cho, U.S. EPA, Region V

1881 - A CENTURY OF SERVICE - 1981

Rock Island Refining Corporation Completeness Review Notice of Deficiency IND 000641730

- Provide a detailed topographical map containing <u>all</u> of the items required by 270(b)(19).
 270, P(b)(9)
- 2. Attachment D.VI, page 23--Photographs of the facility delineating all existing structures, existing treatment, storage, and disposal areas, and sites of future treatment, storage, and disposal areas are not legible. Provide legible copies. 270.13(h)(2).
- 3. Appendix A, page 116. Waste Analysis Plan. Revise plan to include analysis perameters with rationale, procedure for collecting representative samples, and frequency of analysis.
- 4. Section IV, page 45. Security Procedures and Equipment. Provide in detail a description of the warning signs, statement of 25-foot legibility and the exact location of signs. 270.14(c).
- 5. Section V, page 46. General Inspection Schedule. Provide statement as to where, at the Refinery, the inspection schedule and the inspection reports will be kept. 265.15(d).
- 6. Section VII, page 54. Contingency Plan. Provide documentation of arrangements or attempts of arrangements with police department, hospital, etc. Only descriptions of arrangements were provided. 264.37, 264.52(c).
- 7. Section VI, Appendix C. Contingency Plan. Provide a detailed list of emergency equipment, documentation of equipment location, physical description of equipment, and statement of equipment capability. 264.52(e).
- 8. Contingency Plan. page 75. Provide ultimate evacuation routes (in cases where the primary routes could be blocked by releases of hazardous wastes or fire). 264.52(f).
- 9. Contingency Plan. page 54.
 - A. Provide description of cleanup procedures and associated material testing, material treating, storage procedures, description of emergency equipment decontamination and refitting procedures, and description of procedures to ensure incompatible waste segregation during cleanup. 270.14(b).
 - B. Provide description of procedures to mitigate equipment failure and power outages. 270.14(b)(8)(iii).
 - C. Provide description to prevent undue personnel exposure to hazardous waste. 270.14(b)(8)(v).

- 10. Section IV, page 91. <u>Traffic Patterns</u>. Provide detailed documentation of waste movement routes, number of movements by type of vehicles, quantity of waste per movement per vehicle, and traffic control signals. 270.14(b)(10).
- Section XI. page 93. Personnel Training. Provide qualifications of program instructor and brief description of how the training program meets the actual job task. 270.14(b)(12).
- 12. Section XII. Closure Plan. Provide a description of the maximum unclosed portion during facility life, an estimate of maximum waste inventory in storage/treatment during facility life, trackable intervening closure activities, location(s) and number of copies of the closure plan, identification of person responsible for storage and updating the facility copy of closure plan, and procedure for updating all other copies of closure plan. 270.14(b)(13).

CBH/11

SECTION 10.0

COMPLETENESS CHECKLIST

This section contains a checklist of items which must be included in a RCRA permit application. The checklist separately covers the items required in Part A and B of a land storage, treatment, and disposal permit application. The checklist is 41 pages long and addresses all of the permit application requirements that are discussed in this manual. The checklist also addresses the general information requirements of \$270.14(b) on pages 3 through 14 and 21.

It is recommended that this checklist be used during review of the completeness of any permit application. After conducting the review, this checklist will provide a table of contents and a summary of the permit application. As such, it will assist permit reviewers in preparation of deficiency letters. The cover sheet can be used to indicate personnel who conducted the review and will provide a mechanism for checking on questions and comments which arise at later stages in the review process.

Each required information item is briefly stated. Regulatory citations are provided which enable quick location of the full text of the regulation that contains each required item. If no citation is indicated next to a specific item, the last citation indicated above the item contains the requirement.

Spaces are provided for indication of whether the item is included, not included, inadequate, or not applicable. Space is also provided to record the location of items in the application.

The required items are listed in the sequence that they are presented in 40 CFR 270 except where presentation of information from a later section is specifically requested by the subject regulatory citation. A major exception is that the additional information requested in \$270.14(c) is listed at the end of the checklist beginning on page 35.

RCRA PERMIT APPLICATION COMPLETENESS CHECKLISTS FOR PARTS A & B

Date Ap	plication Receive	ed <u>3/4/85/1531</u>	SA)
Applicant Name Rock Island Refining	INDORPHION	and the same of th	
Applicant Contact Me William Cont	/ -		-
Applicant Contact Telephone Number 3/7-8	372 - 5200		•
EPA I.D. Number <u>JNO</u> 006417430			
Permit Review Team in JEGUESS CALL			•
Och Sier Mali	Company of the control of the contro	Date Review Completed	-
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Part 270 Part 264	Subject Requirement	Provided	Not Provided	Inadequate	Not Applicable	Location in Application	Comments
270.10(d) snd 270.13	Part A Requirements (2/28/85 RENSED Gas	(A).	Baranio d'				. 4 35
270,13(g)	 Statement that facility is new or existing 						10.85
270.13(g)	Statement that application is first or revised	Section					736
270.13(a)	- Description of business conducted					-	D 26
270.13(c)	- SIC Codes	piper.	water		<u> </u>		Tn 26
270.13(a)	 Description of activities requiring permit 	3,000					Ta35
270.13(b)	- Pacility: Name	- disease					111
270,13(b)	- Mailing Address	- Barrer		 ,			7.5
270.13(b)	- Location						229
270.13(6)	- Latitude and Longitude			<u> </u>			To30 13
270.13(h)(1)	- Scale drawing (existing facility only)	مستعمدت				<u> </u>	7/2
	- Sufficient detail	town.		 			0.39
270.13(1)	- Topographic Map	- 1			<u> </u>	_ +,	111
	- Sufficient detail						ATTAGARNE
270.13(1)	- Other map						
	- Sufficient detail	····					NO CHEROL
270.13(h)(2)	 Photographs (existing facilities only) 	p					-7/
	- Sufficient detail		. <u> </u>				12.24
210.13(e)	Оклает: Мяше	2000000				N 1	11 4
*	- Address	<u> </u>) ^r
	- Telephone						¿1
270,13(d)	- Operator; Name						
	há dress				<u>.</u>		
	- Telephone						

Page 2 of 41 EPA I.D. No.

				····				
Pårt 270	Part 264	Subject Requirement	Provided	Not Provided	Inadequate	Wot Applicable	Location in Application	Comments
270.13(d)		 Identification of facility ownership status and status as Federal, State, private, public, or other entity 					p24	
70.13(f)		 Statement that facility is or is not on Indian lands 		Chapter or 1.	***************************************			
70.13(k)		 Listing of all permits and construction approvals received/applied for 			<u></u>	-	4.27_	
70.13(j)		 List of 40 CFR 261 wastes and snauel amounts to be handled 	11 1 .	<u> </u>			B36.	
70.13(i)		 Description of all processes to be used to handle wastes and design capacity of each process 	Ser	- All Marketines			P.35	· · · · · · · · · · · · · · · · · · ·
		Part A Certification and Signatories						
70.11(d)		- Certification paragraph	ann Berer				1 38	
70.11(a)		- Appropriate dignatory					4	

Page 3 of 41 EPA I.D. No.

Part 270	Part 264	Subject Requirement	Provided	Not Provided	Inadequate	Not Applicable	Location in Application	Comments
70.14		Part B General Information Requirements						
70.14(b)(1)		- General description of the facility	- Superior			-	p.41	
70.14(b)(2)	264.13(a)	 Chemical and physical analysis of hazardous wastes to be handled 		<u></u>		· · · · · · · · · · · · · · · · · · ·	799	
70.14(6)(3)		- Waste analysis plan	2			*	St. IL	
	264.13(6)	- Analysis parameters with rationale	Carrie .				12,116	
	(1)~(5)	 Test methods for analyzing parameters 						
		 Procedure for collecting representative samples 		<u> </u>			· · · · · · · · · · · · · · · · · · ·	
		- Frequency of analyses		Lum				-Automan-
		 List and description of waste analyses to be generator supplied 	1				P.118-37	y
	264.13(b)(6) and 264.17(c)	 Haste analysis procedures for ignitable, reactive, incompatible wastes 				- described to the second		-
	264.13(c)	 Procedures to determine identity of each waste movement 						
		 Procedures for collecting representative samples 			TERRITOR OF THE PARTY OF THE PA	a de la constantina della cons	,	
70.14(b)(4)	•	 Security description for active portion of facility 	<u>a</u>				p.45	
	264.14(a)	 Security procedures valver justification 		A.,		<u> </u>		
		 Unknowing/unauthorized contact with waste not harmful 				. <u></u>	·	.
		 Unknowing/unauthorized disturbance of waste or equipment cannot cause violation of Part 264 				E. E.		

Part 270	Part 264	Subject Requirement	Provided	Not Provided	Inadequate	Not Applicable	Location in Application	Comments
270.14(b)(4)	264,14(ь)	- Description of 24-hour surve	illance system _ é-		\$ party		10.45	RECOLUTER DE CONTROL
		 Description of artificial or barriers 	natural					
		 Description of controlled en procedures 	try/egress				* f	
	264.14(c)	- Description of warning signs	F			·	- 11	
		- List of languages on si	gns	-	-			
		- Statement of 25-foot le	gibility	2		•		
		- Description of sign loc numbers of signs	ations and		:			
270.14(b)(5)		- General Inspection Schedule and P Description	rocedures				A46	, i delata
	264.15(b)(1)	- Written schedule			***	*	- 01	
	264,15(b)(2) and 265.15(d)	 Statement as to where, at fa inspection schedule and inspection will be kept 						
	264.15(b)(1)	 Identification of equipment/ be inspected 	processes to				p.46-7	
	264.15(b)(3)	- Identification of types of p equipment/process to be chec					<i>₹1</i>	
	264.15(6)(4)	 Prequency of inspections by process 	equipment/		·	· · · · · · · · · · · · · · · · · · ·	<i>f</i> i	er
	264.15(c)	- Schedule of remedial action					11	
270.14(b)(5) and	264.15(a) and	- Specific Inspection Requirements Impoundments	for Surface	·····		· Commence of the commence of		
270.17(d)	264.226	- Description of procedures for	·	· · · · · · · · · · · · · · · · · · ·		, gare		
÷		 Inspection of liners/co- immediately after insta 				Karas "		

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Part 210	Part 264	Subject Requirement	Provided	Not Provided	Inadequate	Not Applicable	Location in Application	Comments
70.14(b)(5)	264.15(a)	- Inspections weekly and after storms			~	-	·	
d 0.17(d)	and 264,226	for - Operation of overtopping controls				Europe.		
		- Sudden drop in impoundment liquid level						· · · · · · · · · · · · · · · · · · ·
		 Presence of liquid in leak detec- tion system 				"Espera"	-	
		 Integrity of dikes/containment devices 				e	:	<u>,</u>
2		 Statement from qualified engineer that structural integrity of dikes will be certified upon construction completion 					***************************************	
		 Qualified engineer's certification of dike integrity for) 	1 1 1	,		Lyan.		
		- Stress			. <u></u>	Barran .		<u> </u>
		- Piping/scouring					,	*
0.14(b)(5) d	264.15(a) and	 Specific Inspection Requirements for Waste Piles 						Mrti. di Albaniano
70.18(e)	264.254	- Description of procedures for				-		
		 Inspection of liners/covers during and immediately after installation 						
		 Inspections weekly and after storms for 				. <u>i/-</u> -		
-		- Operation of run-on/run-off controls			<u> </u>		19, 6001111-00000	
		 Liquids in leak detection system 	·					
		 Proper functioning of wind dispersal controls 			-	- V		
		 Leachate in and proper operation of leachate collection/rewoval system 	<u></u>					

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Part 270	Part 264	Subject Requirement	Provided	Not Provided	Inadequata	Not Applicable	Location in Application	Councenta
270.14(b)(5)	and	Specific Inspection Requirements for Land Trestment Units	·					***************************************
70.20(c)(5)	264.273(g)	 Description of procedures for units inspec- tions weekly and after storms for 			tracer			
••		- Operation of run-on/run-off controls						
		- Function of wind dispersal controls			Queron.		C741222411111111111111111111111111111111	
0.14(ь)(5)		- Specific Inspection Requirements for Landfills						ALL CONTRACTOR OF THE PARTY OF
d '0,21(d)	and 264.303	- Description of procedures for			- 4			
		 Inspection of liners/covers during and immediately after installation 			<u>e</u> gan ^d			<u> </u>
		- Inspections weekly and after storms for						
		- Operation of run-on/run-off	<u></u>					
		- Liquids in leak detection system			<u> </u>			
		- Proper functioning of wind dispersal controls	***************************************		- good -		***	
		 Leachate in and proper operation of leachate collection/removal system 			work		<u> </u>	
0.14(6)(6)		- Prepareduess and Prevention Documentation	15000		MGHA.		0.49	******
	Subpart C	- Waiver(s) request and justification	WATER CONTRACTOR OF THE PARTY O			- Isamon'	/	
	264.32(a)	- Description of internal communications/ alarm system(n)			· · · · · · · · · · · · · · · · · · ·		p50_	
	264.34(a)	 Documentation of personnel access to internal communication/alarm system(s) 	4 same of		il Aseron	,	post.	<u>mou) Délail</u>
	264.32(ъ)	- Description of external communications/ alarm system(s)	3000				-p:56_	
	264.34(b)	 Documentation of personnel access to external communications/slarm system(s) 	Zestalan .		· Lineser*		p51	MORL DETA

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Part 270	Part 264	Subject	Requirement	Provided	Not Provided	Inadequate	Not	Location in Application	Cosssents
270.14(b)(6)	264.32(c)		Description of fire control/ extinguishing, spill control, and decontemination equipment					P50	
	264.32(d)	-	Documentation of adequate water volume and pressure for above equipment	· ·					
	264.33	-	Documentation of equipment testing/ maintenance schedule and procedures					p:40	
	264.35	-	Documentation of adequate isle space		Lieran			254	Dogomes (ollow) MEDIE
	264.37 (also 264.52(c))		Documentation and descriptions of arrangements or attempts at arrangements with;						Não Ga Ca
			- Police department(s)						
			- Fire department(s) . (1)	1 1/		<u> </u>	· · · · · · · · · · · · · · · · · · ·		-
			- Hospitals	8					*E
			- Local emergency response teams - State emergency response teams	e alaren					
			- Emergency response contractors	· Larre					- 100 mm
			- Equipment suppliers	2600				-	
	264.37(a)(2)	-	Documentation of agreements designating primary emergency authority					011	
270.14(b)(7)	Part 264 Subpart D	Cor	ntingency Plan Documentation	- Same				flat	
	264.51 and 264.52(a)	~	Criteria for implementation of contingency plan					A30	
	264.52(d)	-	Emergency Coordinators Identification	2000				p.5/	
			Names	- 200				<u>1/ </u>	
			- Addresses	v					

Part 270	Pert 264	Bubjact	Bubject Requirement	Provided	Not. Provided	Inadequate	Not Applicable	iocation in Application	Commants
270.14(b)(7)			- Bone/Nork Phones	1		7	- CHILLIPA		deen Marsais
•	264.55		- Documentation of Qualifications	and the second s	The state of the s	The state of the s	*	CONTROL ASSESSMENT AND ASSESSMENT	
j F		•	Documentation of Authority	1					150
			- Description of notification procedure	7	و و سندسید دو پیدون	400	The second section is the sectio		1250
	264.52(e)		Emergency equipment list		***************************************	4		15-08	
			- Documentation of equipment location	S. Marie Control		£10.1.		1.1	Malan Ving may be the second of the second o
			- Physical description of aquipment	7		, nor many	***************************************	7)	
			- Statement of equipment capabilities	The state of the s	- Anna Carrier Control	Commence of the second		Tida .	
7	264.52(£)	ı	Byacuation Plan			4 11	1,000		A Company of the Comp
			Criteria for implementation,	-					
		3	- Description of algnal(s) to implement	· 12					
		*	- Description of primary and alternate routes				And the second second		NO ACTERIATE DE LOSTE
**	264.53	. 1	Contingency Plan Copy Location	1			With the Part Labour Marie Congress		4009-AA4487
		e Se e	Description of location of facility's copy of plen	Paratural Barrens	-	and the second		P. C. 1.	New the strice
		# <u>#</u>	Wumber of duplacete copies distributed and their location		1			*	
***	264.56	N. j	Contingency Flom Amendment		1				
		:	- Identification of person xesponsible and authorized to change/amend plan	Comply against the same and sa) .				And the second section of the
	-		- Bascription of procedure to change/ amend facility copy of plan		1		- Andrews of the Control of the Cont		The second secon
			Description of procedure to insure update of all copies of plan		. , , , , , , , , , , , , , , , , , , ,	And the contract of the contra			

ેર Part ~270	Part 264	Subject Requirement		Provided	Not Provided	Inadequate	Not *Applicable	Location in Application	Comments
270.14(b)(7)	264.56	- Detailed Emerge	ncy Procedures					156	
		- Procedure notificatio	for facility personnel on	· terror				<u>/</u>	
		- Procedure notificati	for state/local agency	<u> </u>			L A.	P1	,
		character.	for identification of source, amount, and nt released materials		·			P.59	
		- Procedure environmen	for assessment of t/human health hazards	Cara				- //	
		- Identifica for geogra	tion of On-Scene Coordinate phic area)I				n manage	
	-	Descriptio control pr	n of specific responses and ocadures for	400-				P.S. !-	4-/10****
		- Fire							b
		- Explo	sion	tuin				f°F	
		- Spill	and the second of the second o				. 	259	
		monitoring	n of process shutdown and	it	4,00				
		- Descriptio associated disposal p		g,			. •4	et met le	
		- Descriptio	n of emergency equipment nd refitting procedures	- Basement			,	p 59	MORE ENER
		- Descriptio incompatib cleanup	n of procedures to insure le weste segregation durin	8			3		
270.14(b)(7) and	264.227	 Specific Contingency Surface Impoundments 	Plan Requirements for			<u> </u>			AIR CLASS
270.17(f)		- Procedure for a	topping waste addition to		±=====================================	- Alexandric Print	- Super		-U

	264.227	Subject Requirement	Provided	Not Provided	Inadequate	Not Applicable	Location in Application	
	204.227	- Procedure for containing lead					whhrreatron	Comments
		- Procedure to prevent catastro	phic failure ,			A. Carrier		
		 Procedure for emptying impound 	deept			# £		
•		Procedure for recertifying an impoundment				Brown		
(Note:	There are no \$12:	Procedure for closing impounds			•	***************************************	_	
	under any permit Part 264, Subpart Part 270, Subpart The applicant	2.25 requirements which parallel Part 26 icant should be familiar with the folions since the requirements in them will breceived. E, \$264.70 through \$264.77 C, \$270.30(j) and \$270.30(j)	e sutoscemple	-		<u>V</u>		
270.14(b)(8)	no.			•				
		Preventive Procedures, Structures, s Documentation, including description equipment/procedures to	nd Equipment					D. 70
	•	- Prevent hazards during unloadin	S operations					
		Prevent run-off and flooding						4
		- Prevent water supply contaminati	on					D. 68
		Mitigate equipment failure and poutages		duran		a [*]	, 7	D-60
0.14(b)(9)	264.17	- Prevent undue personnel exposure	to wastes	· ·				
		Prevention of Accidental Ignition or P Documentation	deaction &		/4	and the same of the		
		Description of separation and pro of ignitable, reactive, incompati	ble wastes			L'	THE A	<u> </u>
		Description of ignitable, reactive incompatible wastes handling process.	edures .		The state of the s	Aur	Carriefoga,	
		 Description of number, location, a of warning/prohibition signs 	ind type			1		· · · · · · · · · · · · · · · · · · ·

The same of the sa	Subject Requirement Documentation that procedures are adequate to prevent accidental implementations	btoAfq@q	Not Provided	Inadequate	Not Applicadie	Location in Application	Cosses il e
de"	- Bullions Of Teaction				W		
	 Description of number, location, and type of warning/prohibition signs 						
270.14(b)(9) 264.17(b)	Documentation that procedures are adequate to prevent accidental ignitions or reactions				por		
and 270,17(1)	Specific Ignitable/Reactive Waste Requirements				-		
264.229	- Procedures that render waste nonreactive				Luc' _		
	- Procedures for preventing reactions						
	" Procedures for protecting westes				2r	·	
264.230	"Exergency use only" documentation		_		£		
70.14(b)(9) 264.17(b) id 270.18(g) id 270.18(h)	protection procedures Specific Ignitable/Reactive Waste Requirements				Server.		
264.236	Procedures that render waste nonrescrive		The second data of the second	. 	i i	•	
J.	Procedures for preventing reactions				2-		
264.257	Procedures for protecting westes				٠-		
HAMP TO A STATE OF THE STATE OF	Incompatible waste negregation or protection procedures			-			
14(b)(9) 264.17(b) - 270.20(g) 270.20(h)	Specific Ignitable/Reactive Waste Requirements for Land Treatment Facilities		-		<u> </u>	nine programme and the same programme and the	
264.281	Documentation that application to soil renders weste nonreactive/nonignitable and prevents reactions				1		<u> </u>
	Procedures for protecting wastes						· · · · · · · · · · · · · · · · · · ·

Part 270	Part 264	Subject Requirement	Provided	Not Provided	Inadequate	Not Applicable	Location in Application	Coussents
е ⁽¹⁾	264.282	Procedures which insure that incompatible wastes are not applied to same treatment zone				p.or		
270.14(b)(9) and 270.21(f)	264.17(b)	- Specific Ignitable/Reactive Waste Requirements for Landfilla				<u> </u>		
and 270.21(g)	264.312	- Procedures that render wastes nunreactive and nonignitable				<u> </u>		
		- Procedures for preventing reactions		***************************************	N. S.			
		- Procedures for protecting wastes				<u> </u>	mett.	
v	264.313	 Procedures for insuring that incompatible wastes will not be disposed of in same landfill cell 				- decom		
	264.316 ° (c)-(e)	Procedures for identifying content's sad' insuring proper landfilling of incoming labpacks	1					
270.14(b)(10)		- Traffic Documentation	<u> </u>		· · · · · · · · · · · · · · · · · · ·		p. 91	MORE DESER
		~ . [dentification of;		Secretary Company			<u>/</u>	<u> </u>
		- Waste movement routes		- Starr				
		- Mumber of movements by type vehicle		4				
and the second s		Quantity of waste moved per movement per vehicle	·					
		per vehicle Traffic control signals and personnel			1			I The Second Sec
		 Route surface composition and load bearing capacity 					f 21	the state of the s
270.14(b)(11)		- Pacility Location Documentation				, t-1	W	
270.14(b)(ll) (i) and (ii)		 Political jurisdiction identified (new facilities only) 	**************************************					
		- Comparison to Appendix VI of Part 264						

Part 270	Part 264	Subject Requirement	Provided	Not Provided	inadequate	Not	Location in Application	Comment
	The state of the s	- Demonstration that faults with				· Santanoi		
		displacement in Molocane time are more than 3000 feet from facility						
	264.18(a)	 Demonstration that no faults pass within 200 feet of sites where T/S/D to be conducted 	1				1.12	
0.14(b)(ll) ii)-(iv)	264.18(b)	- Documentation of facility location relative to 100-year flood plain level or weve action flooding	. ———				P. I at	
		- Documentation that facility can withstan the 100-year flood without washout of hazardous waste by:				. <u>- v</u>	- · · · · · · · · · · · · · · · · · · ·	
		Analysia of hydrodynamic/hydrostatic forces resulting at site from 100-year flood, and				****		
		 Presentation of operating units and flo protection devices design and how they will prevent washout, or 	od		-	garen e		÷
		 Plan for removel of waste before washou including. 	t			- Forest	Marie	
		- Timing of removal relative to floo levels	d	·	w 	Ausser"		
		- Estimated time to remove all waste				Medical	<u> </u>	<u> </u>
		 Location to which waste will be mo and proof of compliance with Parts through 124 and 264 through 267 of this Chapter 	122					party and the state of the stat
11115		this Chapter - Detailed description of personnel, equipment, and procedures for west removel sufficient to insure svailability in time for use						maren marcon sur survey by a A. midm
		- Analysis of potential for discharg during wests movement	e	-	_			····

Part 270 Part 264	Subject Requirement	Provided	Not Provided	Inadequate	Location Not in Applicable Application Comments
270.14(b) (11)(v)	A plan documenting how and on what				
270 3771 3771	(existing facilities only).				æ
270.14(b)(12) 264.16	- Personnel Training Program Documentation				98
	 Outline of introductory and continuing personnel training programs 	Busan		Lame	F 11
	 Identification and qualifications of program instructor 	· · · · · · · · · · · · · · · · · · ·	- James		
	 Brief description of how training program meets actual job tasks 	· · ·	p/	· · · · · · · · · · · · · · · · · · ·	
	 Description of procedures to insure sil appropriate personnel receive appropriate training and receive annual training review 	- Action of the second		· .	p, 94
	Description of records to be kept, their location, and procedures to insure they are retained for proper length of time				p.96
'0.14(b)(13) 264.112	Closure Plan Documentation		<u> </u>		497
	 Description of partial and final closure procedures 	<u>v</u>			THE PERSON NAMED IN THE PE
	Description of maximum unclosed portion during facility life	·	<u> </u>		*
	Estimate of maximum waste inventory is storage/treatment during facility life		<u> </u>		
264.114	- Equipment decontamination procedure	<u>//</u>			A 99
264.113	- Estimated year of closure	<u> </u>		-	
<i>ት ማግ</i> ላ ተ ሺ <u>ያ</u> ብ	Description of closure schedule including				0.109
	- fotal time to close	<u> </u>			1,04

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10								
Part 270	Part 264	Subject Requirement	Provided	Not Provided	Inadequate	Not Applicable	Location in Application	Comments
70,14(ь)(13)	264.113	 frackable intervening closure activities 		· ·		A		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		- Location(s) and number of copies of closure plan					· · ·	
		 Identification of person responsible for storage and updating of facility copy of closure plan 		_ L		,,,		<u></u>
*		 Procedure for updating sil other copies of closure pian 		<u>*</u>		-		
0.14(b) 3) and	264.112 and 264.228(a)	- Specific Closure Plan Requirements for Surface Impoundments				Service .		
0.17(g)		 Procedures for removal and/or decontaminal/ tion of all wastes and materials/equipment associated with the impoundment, or 	1					**
		 Detailed plans and engineering reports describing 		-			**************************************	
		- Elimination of free liquids	···					· · · · · · · · · · · · · · · · · · ·
		 Stabilization of remaining wastes Design of final cover demonstrating 				Surver.		
***		- Liquid migration minimization				· _ 9 ~	· pacermanta, Miller a	
		- Function with minimum maintenance						- Letter Cor
		- Drainage promotion				·		
		- Erosion/abracion minimization				also ·		
		- Settling/subsidence accomodation	<u></u>			200		
		 Permeability less than liner or subsoils 			.,			

Part 270	Part 264	Subject Requirement	Provided	Not Provided	Inadequate	Not Applicable	Location in Application	Comments
270.14(b) (13) and	264.112	- Specific Closure Plan Requirements for Waste Piles						-
270~10(i)	264.258(a)	 Procedure for removal and/or decontamina- tion of all wastes and materials/equipment associated with the waste pila 		•				
	264.258(b)	 Procedure for closing in conformance with landfill closing requirements 	William de production de la constantion		Marie Commission of Asia Asia Asia Asia Asia Asia Asia Asia	Lor.	والمستعدد والمستعد والمستعدد والمستع	opposition of the contract of
170.14(b) 13) and	264.112	 Spanific Closurs Flan Requirements for Land Treatment Facilities 		· · · · · · · · · · · · · · · · · · ·	· • • • • • • • • • • • • • • • • • • •	<u> </u>		
170.20(f)	264.280(8)	Procedures to maximize degradation of wast in treatment wone	Ė					PT J. 200
		- Procedures to minimize waste runnoff				S.A.A.	***************************************	
		- Run-off system maintenance procedures	1			limos.		
		- Wind dispersal control procedures				<u></u>		
		- Procedures for compliance with food-chain crop growth	***************************************		-	. <u></u>		
	1	- Procedures for unesturated zone monitoring				30		
		- Description of vegetative cover				w.	*	
		 Procedures for establishing vegetative cover. 				<u> </u>		
70.14(b) []) and	264.112 and 264.310(a)	- Specific Closure Plan Requirements for Landfills	······································					11-0-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
!70.21(e)		 Detailed plans and an engineering report which describes the final cover components in detail 			· .	<u> </u>		
		- Documentation that the final cover will			. ,			
		 Provide long-term minimization of migration of liquids through closed landfill 				<u> </u>		,2

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Part 270	Part 264	Subject Requirement	Provided	Not Provided	Inadequate	Not Applicable	♣ Location in Application	Comments
	*	- Function with minimum maintenance						
		- Promote drainage and minimize erosion/abrasion					.6	
		 Settle/subside without losing integrity. 						
		 Be less permeable than bottom liners or subsoils 			-	-1/		
		- Post-Closure Plan Documentation				<u> </u>		,
70.14(b) 13)	264.117 and 264.118	Description of ground water monitoring activities and frequencies				- Barrell		
		and the second s				سمسك		
	•	- Description of maintenance activities and frequencies for;	1					
		- Final containment structures			<u> </u>	- 		
		- Facility monitoring equipment						*
		 Location(a) and number of copies of post- closure plan 						
		 Identification and location (address and phone number) of person responsible for storage and updating of facility copy of post-closure plan prior to closure. 				<u>deerer</u>		
	·	 Identification and location (address and phone number) of person responsible for storage and updating facility copy of post-closure plan during post-closure period 						
		 Procedure for updating all other copies of post-closure plan 	£					
70.14(b)	264.118 and 264.228(b)	 Specific Post-Closure Plan Requirements for Surface Impoundments 						
270.17(g)		 Procedures for maintenance and repair of final cover 						

Part 270	Part 264	Subject Requirement	Provided	Not Provided	Insdequate	Not Applicable	Location in Application	Comments
		- Procedures for maintenance and monitoring of leak detection system				# gard	100000000000000000000000000000000000000	
		 Procedures for maintenance and monitoring of ground water monitoring system 				<u> </u>		
		- Procedures for compliance with Subpart P						
		 Procedures for preventing run-on/run-off final cover damage 						
270.14(b) (13) and 270.18(i)	264.118 and 264.258(b)	- Specific Post-Closure Plan Requirements for Waste Piles			<u></u>		- Company of the Control of the Cont	·
		- Procedures for post-closure care that meet the requirements for landfills					-	
270.14(b) (13) and 270.20(f)	264.118 and 264.280(c)	- Specific Post-Closure Plan Requirements for [4] land Treatment Facilities		·			-	
270.20(1)		- Procedures to enhance degradation of wastes in treatment zone						hh
		- Procedure for maintaining vegetative cover					····	
		- Procedure for maintaining run-on controls				$-\nu$		
		- Procedure for maintaining run-off controls		·		V	*	
		- Procedures for wind dispersal control			· · · · · · · · · · · · · · · · · · ·			
	,	- Procedures to insure compliance with food- chain crop prohibitions			- ·			
		- Procedures for unsaturated zone monitoring				<u> </u>		
70.14(b) 13) and 70.21(e)	264.118 and 264.310(b)	 Specific Post-Closure Plan Requirements for Landfills 						- · · · · · · · · · · · · · · · · · · ·
		 Procedures for maintenance and repair of final cover 				1		
		 Monitoring and maintenance procedures for leak detection system 					•	

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Part 270	Part 264	Subject Requirement	Provided	Not Provided	[nadequate	Not Applicable	Mocation in Application	Comments	
		- Procedure for leachate collection/remo	val						
		 Procedures to maintein and monitor growster monitoring system 	und						
	•	 Procedures for compliance with Subpart 				- turn			
		 Procedures for preventing final cap er due to run-on and run-off 	osion			<u></u>		***************************************	e*
		 Procedures for protection and maintena of benchmarks 	nc e			<u> </u>			e e e e e e e e e e e e e e e e e e e
	264.310(c)	 Procedures to be undertaken if liquid found in leak detection system 	is						
270.14(b) (14)	264.120	 Documentation of Notice on Deed (existing facilities only) 	. 11 1		<u> </u>	- Broke		,	
		 Statement that land used to manage was 	tes					•	-
		- Statement of restricted use per \$284.1	17(c)		_ ·			у	
	264.119	 Documentation of type, location, and quantity of wastes filed with local authority and EPA Regional Administrat 					· F)	2 / Smg () ()	and the state of t
270.14(в)	264.142	~ Closure Cost Estimate	_3			_ <i>ANN</i>	<u> </u>	1 5 WELL	ENS ATTERNEY
(15)	264.143 and 264.146	 Documentation of a financial assurance mechanism for closure that is: 	<u></u>			11 3/	3 <u>2/85 /63.</u>	TENTO FACE	
٠	264.151(a)	- Closure trust fund							_
	264.151(b)	 Surety bond guaranteeing payment 							-
	264.151(c)	 Surety bond guaranteeing performance 							
	264.151(4)	- Closure letter of credit							-
	264.151(e)	- Closure insurance	<u> </u>						
	264.151(f) and (h)	 Financial test and corporate guarante 							_

Part 270	Part 264	Subject Requirement	Provided	Not Provided	Inadequats	Not Applicable	Location in Application	Comments
		- Multiple financial mechanism for one facility			est	for .	and the second s	
		 Single financial mechanism for multiple facilities 						
70.14(b)	264.144	- Post-Closure Cost Estimate				· dome		<u> </u>
[16]	264.145 and 264.146	 Documentation of a financial assurance mechanism for post-closure that is; 			<u> </u>	_1		
	264.151(a)	- Glosure trust fund				·		
	264.151(b)	- Surety bond guaranteeing payment				Baker!		
	264.151(c)	- Surety bond guaranteeing performance		***************************************		.2 F. P. V.		400
	264.151(d)	- Post-closure letter of credit				Recommend.		
	264.151(e)	Post-closure insurance				Maryana		
	264.151(f) and (h)	- Pinancial test and corporate guarantee				<u>toward</u>		
		 Multiple financial mechanism for one facility 						
		 Single financial mechanism for multiple facilities 			— ************************************	- Tomas and a second		
70.14(b) 17)	264.147	- Documentation of Insurance	<u> </u>				9109	A
L i j		- Request for variance from insurance				der .	<i>y</i>	<i>y</i>
	264.151(i) end (j)	- Insurance for sudden/accidental occurrences	-\$			·	p.109	
		- Insurance for nonsudden/accidental occurrences		aption to the control of the control		·	1-1	
	264.151(g)	- Financial test for liability coverage				35		

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Part 270	Part 264	Subject Requirement	Provided	Not Provided	Inadequate	Not Applicable	Location in Application	Comments
170.14(b) (18)	264.149	- Documentation of a State Required Financial Mechanism for Closure, Post-Closure, or Liability including				· Learn		
		- EPA I.D. number				# Carried and	V*************************************	·
	•	- Facility name				Answer	,	
		Facility address				angerope		
		- Amounts of limbility coverage or funds						
	264.150	- Documentation of State Assumed Responsibility for Closure Post-Closure or Liability including		40	, <u>, , , , , , , , , , , , , , , , , , </u>	3-		
		- Letter from State describing State's responsibilities	1 :		, , , , , , , , , , , , , , , , , , , 	2) secretary		
		- Facility EPA L.D. number						<u> </u>
		- Facility name				2.34440000		
		- Facility address				3		
		 Amounts of liability coverage or funds assured 				- Barrer	,	
70.14(b) 19)		 Topographic map showing a distance of 1000 feet around facility at a scale of not more than 1 inch equals 200 feet that clearly shows 			Lustrani.		MOT ON ON	
	÷	- Contours			1/			· · · · · · · · · · · · · · · · · · ·
		- Proper contour intervals			أمسحه مت			
		- Map scale and date			i i i i i i i i i i i i i i i i i i i	-		***
		- 100-year flood plain eres	1		ممهما			
		- Surface waters and intermittent streams			1./		<u></u>	
		- Surrounding land uses	100		- 			

Table 1 and		-					.,	•	
Part 270	Part 264	Subject 1	Subject Requirement	Provided	Nat Províded	Inadequate	Mot Applicable	Location in Application	Comments
270.14(b)	Mark and The Company		Wind rose	1)	4	6.00	
(19)		1	Rorth orientation					in the same of the	
		1,	Legal boundaries of facility site	-					
		ı	Access control	7		>			
		1	Injection and withdrawal wells onsite and offsite			-			- La Appenda de la compansión de la comp
			Buildings and recreation areas		1	-		de la constitución de la constit	
		١	Runoff control systems		18	The state of the s		- Company of the Comp	***************************************
		t .	Access and internal roads		7				
			Storm, sanitary, and process sewerage systems		· John I		- market and the second	· · · · · · · · · · · · · · · · · · ·	
			Loading and unloading areas	Marie Marie	1 1 1			and the party of the last of t	
		1	Fire control facilities	-	100				
		r	Barriers for drainage or flood control	-	1				
		l	Location of past or present operational units and equipment cleanup areas		100				Prince and Alberta in the
270.17		Specific Part Empoundments	Specific Part B Information Requirements for Surface Impoundments		The state of the s	AND	A Contraction	- LLDJawrys	
270,17(a)	₹ ₹	t	List of hazardous wasten placed or to be placed in impoundment	- Semme			S. Constant	La constant de la con	A A A A A A A A A A A A A A A A A A A
270.17(6)	264.221	į	Detailed plans and an engineering report describing				Y		
270.17(b)(1) 264.221(a)	364.221(@)		Liner system construction (new only)	- In the second			1		
	264.221(a)(1)	?	- Material of construction		Ber weit to de la constitución d	-	3	-	
			- Chemical properties				3	and response	19 - 19 - 19 - 19 - 19 - 19 - 19 - 19 -
			The second secon						

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Part 270	Part 264	Subject Requiremen		Provided	Not Provided	Inadequate	Not Applicable	in Application	Comments
					*		l.		
70,17(b)(1)			Physical strength				- 1		
		عد	Thickness						
	264.221(a)(2)	-	Poundation design/integrity						
	264.221(a)(3)		Area covered						
	264.221(a)(1)	- Lin onl	er system integrity against (new y)						
		-	Internal and external pressure gradients			4			
		<u>-</u>	Contact with waste/leachate				. <u> </u>		
			Climatic conditions				. 		
		**	Installation stresses ,	1 1 .					Grauss, III
		-	Daily operational stresses				· _		†
	264.221(b)	- Lit	ner system exemption including			·	p. P. J.		
		- we	Hature and quantity of wastes	<u></u>					
•		-	Alternative design and operation	·			- •/	70001-0	
		-	Impoundment location description	1		-	45,000		
			- Hydrogeologic setting				Queen		
	et j		 Attenuative capacity of materials between impoundment and groundwater and surfact water 	e			- 		
		**	Documentation of no migration t ground/surface waters at any future time	0			3		
270.17(b)(2)	264.221(c)	~ Pr	ocedures/equipment to prevent ertopping from						
		***	Normal operation		. <u></u> -				

Part 270	Part 264	Subject Requirement	Provided	Rot Provided	Inadequate	Not Applicable	Location in Application	Comments
270,17(b)(2)	264.221(c)	- Abnormal operation						
٩.		- Overfilling	····			200		
•		- Wind/wave action						
		- Rainfall		· · · · · · · · · · · · · · · · · · ·		Lor		
		- Run-on	***************************************					
		- Equipment malfunctions			A			
		- Human error						
270.17(в)(3)	264.221(d)	 Structural integrity of dikes 			***************************************	- Autor	ATTORING CO.	
270.17(c)	264,222(a)	- Documentation for Part 264, Subpart F exemption including,	rt -					
		 Impoundment and liner location ab seasonal highwater table 	ove			<u> </u>		
		- Two liners meeting \$264.221(a) requirements				<u> </u>		
		 Leak detection system between lin 	era		<u></u>	<u> </u>		
270.18		- Specific Part B Information Requirements fo Waste Piles	<u> </u>		<u>,,</u>			
270.18(a)		 list of hazardous wastes placed or to placed in each waste pile 	be.					
27G.18(b)	264.250(c)	 Documentation of general exemption from \$264.251 and Part 264, Subpart F, incl. 	uding,		* 			
		 Wasta pile protection from precipitation 				<u> </u>	-	
		 Procedures for insuring liquids as not placed in pile 		•				
		- Description of run-on controls						

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Part 270	Part 264	Subject	<u>Requirement</u>	·		Provided	Not Provided	Inadequate	Not Applicable	Location in Application	Comments
		<u> </u>	- Descript	tion of wind dispers	rsal				Berner		
			- Весопро	sition/reactions do							
0.18(c)	264.251(a)	~		ns and an engineer	ing report				A. James	·	
0.18(c)(1)	264.251(a)(1)			ystem construction	(new only)				1		
	264,221(a)		- Ma	terial of construc	tion				· -/	***	
			- Ch	emical properties	•				. <u> </u>		
				ysical strength	on the second				1/		
				ickness		' -!					
				oundation design/in	itaktrek				_/_		<u> </u>
				system integrity as	gainst (new						
			– 1r	nternal and externa cadients	l pressure					****	
			Cc	ontact with waste/l	leachate						
				limatic conditions							
**				nstallation stresse					- Barrer		
	264.251(a)(2) ·	I washa	aily operational at	removal syste	em			god .		
			leacha	ntsin less than one te on liner includ	ing.						
	•		- H	aterials of constru	uction						

264.252(a)

water table

270.18(d)

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Part 270	Part 264	Subject Requirement	Provided	Not Pravided	Inadequate	Not Applicable	Location in Application	Comments
0,18(3)	Piece ,	- Two liners meeting requirements of \$264,251(a)(1)						
		 Leak detection system between liners 						
		 Leachate system meeting §264.251(s)(2) requirements 						
	264.253(Ъ)	 Documentation for Part 264, Subpart F exemption including. 		w-		. in the second		
		 Pile and liners above seasonal high water table 				. <u>-14</u> -		
		Liner meets \$264.251(a)(l) require- wents		 		. Superior		
		- Soil characteristics/depths 4.	i l T	<u></u>				
		- Leachate system meets \$264.251(a)(2) requirements			<u> </u>			<u></u>
	 Schedule/procedures f inspection by waste r 	 Schedule/procedures for liner inspection by waste removal 				<u> </u>		
		 Sufficient liner strength/thickness to allow periodic: removal/replacement of wastes 			·			
D.18(f)		 Description of treatment carried out in or on the pile including, 						
		- Details of treatment process						
		- Equipment used		<u> </u>		- - \		
		" Nature and quakity of residuals			-			
0.20		 Specific Part B Information Requirements for Land Treatment Facilities 						
70.20(#)		 Description of treatment demonstration plans by 				_ <u></u>	7,0	
	264.272(b)	- Pield test			<u> </u>			

		والمراجعة			Color I consideration of the Color				
Part 270	Part 264	Subject Requirement	June 11	Provided	Not Províded	Inadequate	Not Applicable	location in Application	Comments
270.20(8)	·		Laboratory analysis			The state of the s	*		
ie.	-	•	Available data					The state of the s	
		Ī	Operating data (existing units only)	-					
		- Sub	Submittal for laboratory analyses or field test demonstration permit including,						
	264.272(c)	1	Documentation of accurate simulation				70	-	
			Wastes and hazardous constituents descriptions (Part 261, Appendix VIII)						
÷			Climatologic information		Approx 0 may 10		7		
		-	Topographical data	-			\ \ \		
			- Operating practices			The state of the s]	
			Type of test to be conducted				,		
		•	- Zest materials and methods	4				- 0.5	
		-	Expected completion time					<u> </u>	The state of the s
		1	Statement on appropriateness of demonstration	}		The Burk of Hilly brown			
		ì	Statement on human health and environment protection considering,	-				-	
			Characteristics of wastes to be tested				6		
			Operating and monitoring during tasts				4		منداد سار دو و در الله دار دو الله دار
			- Duration of test	-			3		
	A Commence of the Commence of		- Volume of waste used in test	-			1	-	
									The state of the s

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C. C. T. C.			Provided	Not Provided	Inadequate	Not Applicable	Location in Application	Comments
Part 270	Part 264	Subject Requirement			-			
		 Potential for hazardous waste migration to ground/surface water (field tests only) 	. 6			<u> </u>		
70,20(b)	264.271(s)	- Description of land treatment program					<u> </u>	
		 Wastes to be land treated 			<u></u>			
		- Design measures to maximize treatment including,	· · · · · · · · · · · · · · · · · · ·		4		-	<u></u>
70.20(b)(2) i)	264.273(a)	 Rate and method of waste application 				\		at-1/4/7-1
		- Soil pH control measures						
		- Microbial/chemical reaction enhancements	1 1 .					
		- Treatment zone moisture control mensures						*
70.20(b)(3)	264.278 (a)-(f)	 Unsaturated zone monitoring procedures including. 	e z					
		 List of and rational for select- ing compounds to be monitored 			,	,		
		 Monitoring equipment, procedures frequency 	·					
	•	 Procedures for selecting sampling locations 		*******		. 		
		- Sample collection procedures						
		 Sample preservation/shipment procedures 		, , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		·		
•		- Sample chain of custody control						
		- Sample analysis procedures						

Fart 270	Part 264	Subject Requirement	Provided	Not Provided	Inadequate	Not Applicable	Location in Application	Comments
g or the control of t	y	- Background value determination procedures				- Lance		
Q _{io}		- Statistical methods description)n					
370,30(b)(4)		 List of heardous constituents expected to be in, or darked from washes so be land seemed 		<u> Arron Paparatidad Pa</u> gu	pro-	and the second s	Service	معد بازد موسود می از در است. است. از در است. است. از در است. است. است. است. است. است. است. است.
ź/0.80(6)(5)	264.271(4)	The proposed vertical and horizon- tal dimensions of the treatment and with maximum depth of	• September 1	On the second of	da the training the second	THE PARTY OF THE P	Significant Property States of the States of	to the second second second second
		No more than 5 feet from the initial soil surface	==	***************************************				
		- Hore than 3 feet above the seasonal high water table	11 1 .			<u> </u>		
270.20(c)	264.273 (b)-(f)	 Description of land treatment unit design 	 	·				
		- Procedures/equipment to prevent run-on from peak discharge of 25-ye storm	er			100		
		 Procedures/equipment to collect and control the run-off water volume fr a 24-hour, 25-year storm 			.		<u> </u>	
	•	 Procedures/equipment to minimize run-off from treatment zone during active life 				<u> </u>		
		 Run-on and run-off collection and control systems management plan 	*			_ to		
		 Procedures/equipment for wind dispendence set control 	r- <u> </u>					
270.20(d)	264.276(@)	 Documentation of request for growth of food-chain crops on treatment zone not receiving cadmium in wastes 		**************************************	·····	- Burker.		

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Part 270	Part 264	Subject Requirement	Provided	Not Provided	Inadequate	Not Applicable	&ocation in Application	Comments
70.20(d)	264.276(a)	 Statement that demonstration of no risk to human health will be conducted by, 				20000		
		- Field tests				Russin.		,
		- Greenhouse studies			. <u></u>	lored		a
		- Available dats				<u> </u>		
		 Operating data (existing only) 						
		 Demonstration program description, including 				· -1/		-
		- Soil pl						
		 Cation exchange capacity of soil 				- Basel		
	- Specific wastes to be applied ,	+	<u></u> .		- Bout	 		
		- Waste application rates				. <u> </u>		¥
		- Waste application methods				- Burn		<u> </u>
		 Identification of demonstration crops 					· · · · · · · · · · · · · · · · · · ·	
		 Planting and growth procedures 					, 	
		 Characteristics of crop 	,			- 42		
		 Sample selection criteria 				8/		
		- Sample collection procedure			 			
		- Sample size						
		- Analyses methods					<u> </u>	
		 Statistical data evaluation procedures 						WILDER
		- Identification of comparison crops						
		- Characteristics of crop					_	

Part 270	Part 264	Subject Requirement	Provided	Not Provided	Inadequate	Not Applicable	Location in Application	Connents
270.20(d)	264.276(a)	- Planting and growth procedures				<u></u>	Manual Control of the	
>		- Conditions of growth				<u>los de la composición dela composición de la composición dela composición dela composición dela composición de la composición dela composición de la composición de la composición dela composición del composición dela co</u>		
		- Sample selection criteria					-	
		- Sample collection procedures		***		<u> </u>		
		- Sample size						·····
		- Analyses methods				_ ~		مند د بداید برومیوس ب
		 Statistical data evaluation procedures 				<u></u>		
		 Request for a permit to conduct demon atration program 	- <u></u>					
270,20(æ)	264.276(6)	- Documentation of request for growth of food-chain crops on treatment zone if wastes contain cadmium	1					
		- Cadmium concentration in waste					 .	
		- Soil pH				18		
		 Annual application of cadmium in kilograms per hectane 						
	•	 Soil cation exchange capacity 						
		 Identification of animal feeds to be grown 						·
		 Plan to prevent animal feed ingestion by humans 			·			
		- Documentation of notice on deed	~					
70.21		 Specific Part B Information Requirements for Landfills 						
270.21(a)		 List of hazardous wastes to be placed in each landfill cell 			···-	_/		,

270	Part 264	Subject	Requirement	Provided	Not Provided	Inadequate	Not Applicable	Location in Application	Comments
Part 270	PREL 204						V		
70.21(b)	254.301(a)		Detailed plans and an engineering report describing						
70.21(6)(1)	264.301(a)(l)		- Liner system construction (new only)			· ·			
			- Material of construction		1				
			- Chemical properties			bosses and a second			
		=	- Physical strength				,		
ā			- Thickness						
			- Foundation design/integrity	<u> </u>	en programme		2 Land		
			- Area covered				in the second		
			 Liner system integrity sgainst (new only) 	` <u></u>					
			 Internal and external pressure gradients 		etyr at the execu-			1000	
			- Contact with waste/leachate		:	<u>, , , , , , , , , , , , , , , , , , , </u>			
:			- Climatic conditions	****					
			- Installation stresses						<u> </u>
			→ Daily operational stresses			, <u> </u>			
	264.301(a)(2)	·	 Leachate collection and removal syste to maintain less than one foot of leachate on liner including, 						
			 Materials of construction 			· · · · · · · · · · · · · · · · · · ·			
		¥	- Chemical resistance to waste/ leachate			.			
·			 Sufficient strength to prevent collapse 				- - /-		

•		1 - 1			Not		Not	Location in	
Part 270	Part 264	Subject Requirement		Provided	Provided	Inadequate	, ,	Application	Comments
270.21(b)(1)			Provisions to prevent clogging				i.e.		
G _{re}	264.301(b)		system/leachate system exemption		,	N.E			
		-	Nature and quantity of wastes			<u> </u>	Land		W. Autor
		•	Alternative design and operation					- 10.700	***************************************
		-	Landfill location description				· Europe		
			- Hydrogeologic setting			·			
			 Attenuative capacity of materials between landfill and ground and surfaçe water. 						
			Documentation of no migration to ground/surface waters at any future time						
70.21(b)(2)	274.301(c)		m for control of run-on from discharge of a 25-year storm		-	····	<u></u>		,
70.21(b)(3)	274.301(d)		m for control of run-off water e from a 24-hour, 25-year storm				_1/_	*	
70.21(6)(4)	274,301(@)	holdi	dures to manage collection and ng facilities associated with n and run-off control systems	 .		·	- <i>V</i>		
70.21(b)(5)	274.301(£)	- Wind	dispersal control procedures	*			_1/_	MATERIA SECURE	
70.21(c)	264.302(a)	- Documentat exemption	ion for Part 264, Subpart F including,	-		<u> </u>			
			ill and liners above seasonal water table					Transcope Patrician Dia	
			iners meeting requirements of 301(s)(1)			·····			904

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							<u>*</u>	
Obs.			Provided	Not Provided	Inadequate	Not Applicable	Location in Application	Comments
art 270	Part 264	Subject Requirement						
		- Leak detection system between liners	-		,	- 6		
		 Leachate system meeting \$264.301(a)(2) requirements 				- American	And Personal and Additional and Addi	
0.21(h)	264.314	 Documentation of procedures/equipment for landfilling liquid wastes 	•		,, <u></u>			
0.21(1)	264.315	 Documentation of procedures/equipment for landfilling containers 				Kymmer	*	
0.14(c)	Pert 264 Subpart P	Part B Protection of Ground Water Information Requirements for Surface Impoundments, Waste Piles, Land Treatment Units, and Landfills		·		<u> </u>	and the second s	
0,14(c)(l)		- Interim status period ground-water monitoring data summary	<u> </u>	AP-SAS		<u> </u>		
0.14(c)(2)		 Identification of uppermost and hydraulically interconnected aquifers under facility including 	,					•
		- Water flow rate and direction	*****			Emer		
		- Bases for identification				- in-		
0.14(c)(3)		- Topographic map				- auro		
id 10.14(b)(19)		- Delineation of property boundary					- 14	
	264.95(0)	- Delinestion of waste management area				Survey .		
	264.95(a)	 Delinestion of proposed point of compliance 	***************************************		. <u> </u>	<u> </u>		
		- Ground-water monitoring well locations				- Edward -		77-107-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
_		- Location of aquifers	<u></u>				THE PERSON NAMED IN COLUMN TWO	
A 144.354		- Descriptions of existing contemination			William .			~-
(0.14(c)(4)		- Delineation of plume extent				- //	est es co	

Part 270	Part 254	Sub j	ect Requirement	Provided	Not Provided	Inadequate	Not Applicable	location in Application	Comments
			- Appendix VIII constituents concentrations						
e %,			- Concentrations throughout plume				1 december		
			- Maximum concentrations in plume				(memora"		
70.14(c)(5)	264.97	-	Detailed plans and an engineering report of Ground Water Monitoring Program			***			
	264.97(a)		- Descripton of wells						
			- Number of wells						
			- Locations				_ <	-	·····
			- Depths						
		* . *	- Assurance of unaffected background water measurement	11					,,_,
		5 (5) (4) (4) (2)	- Assurance of compliance point ground water measurement			**************************************			
	264.97(c)		- Casing description				A.		
	264,97(d)		- Description of sampling/analysis procedure	a					
			- Sample collection methods					5	
•			- Sample preservation/shipment			~~~			
			- Analytical procedures	 			· ***		
			- Chain of custody control				- Rand	<u> </u>	
	264.97(e)		- Documentation of proper/adequate analytica procedures	ı			V		THE POST OF THE PO
	264.97(1)		 Procedure for determination of ground water elevation with each sample 				_6		
(0.14(c)(6)	264.91(a)(4) and 264.98	-	Description of Detection Monitoring Program including,						

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Part 270	Part 264	Subject Requir	eme a t	,	Provided	Not Provided	Inadequate	Not	Location in Application	Comments
			- Post-closu	re period						
	264.98(e)	· -		nnual determination of er flow rate and						
	264.98(f) & 264.97(d)&(e)	-	Documentation o	f sample collection occdures				was december.		
	264.98(g)	-	cally signification	etermining a statisti- nt increase for any eter or constituent by		-	-	- Barrier		
			 Comparing : to backgros 	compliance point data und value data using ures in \$264.97(h)(1) 4	4 _f .			<u> </u>	74.5	
			period afte	an estimate of the time er sampling completion to obtain results				٧.	4	· ·
).14(c)(6)	264.98(h)	-*	statistically s. sny constituent	implemented if a ignificant increase in or parameter is no, compliance point , including	W89			<u>.</u>		
	264.98(h)(1)		- Written no Administra	tification to Regional tor			****	$\underline{-\nu}$		
	264.98(h)(2)		methods for	lection and analysis rall Appendix VIII ts at all monitoring	-					
	264.98(h)(3)			establishing Appendix ituent background value	8					
	264.98(h)(4)		permit mod:	n of an application for if of an application for establish monitoring		***************************************				

Part 270	Part 264	Subject	Requirement	g en	Provided	Not Provided	Inadequate	Not Applicable	Location in Application	Comments
70.14(c)(6)	764.93 and	_	List of indicat	or parameters, waste				W #		
i) *	264.98(m)		constituents, r monitored for,	eaction products to be including				ye.		
			- Type, quan	tities, concentrations n wastes				82000	**	···
		•	- Mobility, unsaturate	atability, persistence in d zone						
			- Detectabil	ity in ground-water		· · · · · · · · · · · · · · · · · · ·		1.20		
70,14(c)(6) iii)	264.98(a)(4) and 264.98(c)(1)		tration Va	ground-water concen- lues and coefficients on established by						
	264.98(c)(3)		vater	mourtoging system, and	1				-	
	264,97(g)(1)		- Quart	erly sampling of upgradient for one year, or				<u> </u>		
	264.97(g)(3)		- Quari	erly sampling of other well one year, and	š		<u> </u>		***	
	264,97(g)(4)		олир	from a minimum of one le/well_and minimum of four les per quarter, or						
		-	- Pres	entation of procedures to	·					
170.14(c)(6) ii)	264.98(6)		ground-ve	on of an appropriate ter monitoring system to be at the compliance point	<u></u>		· 1940-194-194-194-194-194-194-194-194-194-194	1/		<u></u>
70.14(c)(6) iv)	264.98(d)		annual gr	e for callecting semi- ound-water samples at the e point during						
			- Acti	ve life				- - V -		
			- Clos	ure period						

Page 39 of 41 EPA 1.D. No.

Part 270	Part 264	Subject Requi	rement.		Provided	Not Provided	Inadequate	TâO €	location ≪ in Application	Comments
70.14(c)(7)	264.91(a)(1) and 264.99	- Descript	ion of Compliance Mon							
	Bild 204.55	- Lie	s t of wastes previous! ility							
· ·			racterization of cont	aminated ground-				Burgeri ¹¹	p., 1	
		-	Hazardous constitue	ents identified				<u> </u>		
			Hazardous constitue	enta concentrations						
	264,99(b)	~ Des	cription of compliance	e monitoring point	<u> </u>					
		- Lis	t of hazardous consti pliance monitored	ituenta to be				<u> </u>		
	264.96	- Pro	posed compliance per	iod , l	1			_ 1/		
	264.99(4)	at.	cedure for collecting compliance point dur iod	g quarterly samples ing compliance				. <u> </u>		*
	264.99(c)(3)	- Pro	cedures for establishes to based on	hing background		 		<u> </u>		
		-	Use of an appropri	ate ground-water		<u> </u>			7	*
	264.97(g)	-	Data that is avail	able prior to permi	t					····
		-	Data that accounts errors in sampling	for measurement and analysis						
		-	Data that accounts ground-water quali	for seasonal ty fluctuations				/		**************************************
		-	Date from a minimum well and a minimum from monitoring sy system is sampled	m of one sample per of four samples stem, each time		<u></u>				

Part 270	Part 264	Subject	Requirement	e e e e e e e e e e e e e e e e e e e		Provided	Not Provided	Inadequate	Not Applicable	Location in Application	Comments
270.14(c)(7)	264.92 and 264.99(c)	_		ncentration li justification	mits for consti- based on					***************************************	
	(1),(2)		- 5264.9	4(a)(1) and §2	64.97(g)						
	•		- \$264.9	4(a)(2)					W		
			- \$254.9	4(b) and 1264.	99(c)(l)						
	264.99(e)	-		or annual dete quifer flow ra	rmination of te and direction						····
	264.99(F)	-			ting of all r Appendix VIII			<u> </u>		<u> </u>	
	264.99(g)	-	Documentati procedures	on of all samp	ling and shalysis	11-	· · · · · · · · · · · · · · · · · · ·				·
	264,99(h)			increase for	g a statistically any monitored				4eeess		
			concen		point data to the		,				
			period	ing an estimate after sampling ary to obtain	g completion						
	264.99(i)	er er er	ground-wate	to be implement r protection at any compliance , including	tandard is				<u>i</u> /	 	
	264.99(1)(1)			n notification strator	to Regional				i		
	264.99(i)(2)		permit	ation of an app modification t tive action pro					<u> </u>		

Page 41 of 41 EPA L.D. No.

Part 270	Part 264	Subject Requirement	Provided	Not Provided	Inadequate	Not Applicable	Mocation in Application	Comments
		- Details of program to comply with ground-water protection standard				V		
70.14(c)(7) ,)	264.99(i)(2) (ii)	 Details of ground-water monitoring to demonstrate effectiveness of program 						
70.14(c)(8)	264.91(s)(2) and 264.100	 Description of Corrective Action Program, including 		<u></u>				
70.14(c)(8) i)		 Characterization of contaminated ground-water 				<u> </u>		
	264.100(a)(l)	 Identified hazardous constituents Concentrations of hazardous 				32.00		
70,14(c)(8)	264.100(a)(2)	constituents 4. 11 Concentration limit for each hazardous	1	W		V		
ii) 70.14(c)(8) iii)	264.100(ъ)	constituent - Detailed plan and an engineering report describing the corrective actions to be			·			*
	264.100(c)	taken at the compliance point - Time period necessary to implement corrective action program			Joseph Liver Market Control of the C			
70.14(c)(8) iv)	264.100(d)	 Description of ground-water monitoring program that will be sufficient to assess the adequacy of corrective action 		-		- 1/		
	264.91(a)(3) and 264.100(e)	 Description of the corrective action to be taken for constituents in ground-water between compliance point and downgradient facility boundary 	- alasti til Fri			_ &		Call Appropriate Control of the Cont
	264.100(g)	 Procedure and content for semi-annually submitting written reports to the Regional Administrator on program effectiveness 		**************************************				
		Part B Certification and Signatories		•			13	
70.11(4)		- Certification paragraph - Appropriate signatory	-V				1/23	

BAKER & DANIELS

SIO PLETCHER TRUST BUILDING

INDIANAPOLIS, INDIANA 46204-2454

317-636-4535

ALBERT BAKER

EDWARD DANIELS JOSEPH DANIELS

WASHINGTON OFFICE BUITE 600 1920 N STREET N. W. WASHINGTON, D. G. 20006

202-786-1585

TELEX 692425

WRITER'S DIRECT DIAL NUMBER;

March 1, 1985

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DONALD P. BE: IT THOMAS G. STAYTON JOE C. EMERSON JAMES M. CARB JAMES H. HAM III JAMES IM. CARR
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MARY E. LISHER
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N. STEVERSON JENNETTE III
SUBAN W. REMPERT
TIMOTEY L. STEWART

L. STEVERSON JENNETTE III
SUBAN W. REMPERT

. NOT ADMITTED IN INDIANA

PAUL N. BOWE KARL J. STIPKER OF COUNSEL



WMD-RAIU EPA REGION V

RCRA Activities Part B Permit Application United States Environmental Protection Agency P. O. Box A3587 Chicago, Illinois 60690-3587

Karl J. Klepitsch, Jr., Chief Attention: Waste Management Branch

> Part B Application of Re:

Rock Island Refining Corporation

5000 West 86th Street

Indianapolis, Indiana 46268

IND006417430

Dear Mr. Klepitsch:

Enclosed are the original and three copies of pages 22 and 23 that were inadvertently omitted from Rock Island Refining Corporation's February 28, 1985, Part B application.

Very truly yours,

GWP/lh Enclosures cc w/o enc.: Mr. William E. Laque

5HS-13

CERTIFIED MAIL RETURN RECEIPT REQUESTED

William Laque Environmental Coordinator Rock Island Refining Corporation Post Office Sox 68007 Indianapolis, Indiana 46268

> RE: Corrective Action Requirements, Hazardous and Solid Waste Amendments of 1984 Rock Island Refining Corporation IND 006417430

Dear Mr. Laque:

As you know, we are currently reviewing Part B of the Resource Conservation and Recovery Act (RCRA) permit application for the above-referenced facility.

On November 8, 1984, the Hazardous and Solid Waste Amendments of 1984 (the Amendments) were enacted to modify RCRA. Under Section 206 (copy enclosed) of the Amendments, all RCRA permits issued after the date of enactment must provide for corrective action for all releases of hazardous waste or constituents from any solid waste management unit, regardless of the time at which waste was placed in the unit. Please note that both hazardous and non-hazardous waste can meet the definition of solid waste under 40 CFR 261.2.

Consequently, we must determine whether such releases have ever occurred at the facility site. If they have, we must ensure that corrective actions either have been taken or will be taken, pursuant to a RCRA permit. An important part of our determination includes your willingess (or unwillingness) to sign the enclosed certification statement. Please read it carefully and either sign it and return it, or return it to us unsigned with a cover letter of explanation, within three weeks of the date of this letter. Any information regarding releases of hazardous waste or hazardous constituents to the environment will be evaluated during the permit review process. Any tentative decision we make concerning your permit application will be public noticed in a newspaper of general circulation in the area of the facility.

Please contact the previously identified permit writer with our Agency for additional information.

Sincerely yours.

Karl J. Klepitsch, Jr.

Chief, Solid Waste Branch

Enclosures INITIALS

AUTHOR STU #1 STU #2 STU #3

CHIEF

CHIEF

TPS CHIEF

WMB CHIEF

CMW DIRECTOR

1 6 MAY 1965

Pilist Lame Thy rangers Coordinated Nock Island Jeffning Corporation Alma West Soth Street Indiacapolis Indiaca 46253

> at the light Permit Application Back Island Refinios Cornoretion 1907 (4)6417433

icar in. Laddi

Thatk you for the Part & permit application subsitted for the hazardous unsta activities at the above references facility. The application was been initially reviewed for completeness purposed to the repulatory regulrements given to 80 GFE Parts 254, and 279.

Dur review indicates there ere informational requirements which have not been endressed in your emplication. Enclosed is an ettachment which deliquates the specific emissions. This information must be submitted before the emplication can be considered to be complete. When receipt of this information, we will continue review of Your application. The substaction is the As days from the date of this letter.

Please contact in. Roy Pogelius of my staff, at (312) 886-1478, if you have apostions concernian this matter.

Sincerely yours,

Zajth D. Ardionio. Pulse Chief. Technical Programs Section

Attachment L

5MS/Moselfusivo ii 4/12/95

AUTHOR STU #1 STU #2 STU #3

CHIEF

CHIEF

WIMB CHIEF

WWD DIRECTOR Prot Island Peffson Corporation Potice of Deficiency

- Defore addressing the specific deficient or exitted state, it seems prober to clanify the status of the Rock Island Refinery's wester vis-a-vis fre pertioest Federal labulations. These eastes appearing on fock Island's orizinal Part A are: and aleuve have been, hezerdous wastes. Although an informal delisting for three of Rock Teland's listed wastes (KOSS 1995) and MOSI) was cranted by the Office of Solid Wasto in letters to Reafon Y. Anck Island, and the Indiana State Yeard of Health dated respectively Harch 11. 1982: Tarch 12, 1982: and June 19, 1982; a temperary deligities was never bublished in the Federal Register. Suc to the fact that informal deligitions have no statutory basis. These letters therefore have no force of law and in no way effect the remitation of these wastes. Consequently, the provisional vertance granted by the indiana State Board of Health for the slop oil evulsion solids (KD40), heat exchanger bundle cleaning sludges (KD50), and API separator studge (2001) on February 7, 1983 was voted open issuance persuast to that variance a condition 43 because of such federal exclusion ever existed. The U.S. IPA analogizes for any confusion caused by the deformed delisting. It should be noted that in a phone conversation on March 20, 1985, Wr. Laque. Reck Island's environmental coordinator, stated to Mr. Magelius of the regional staff that the corporation continues to treat these three wastes as bazardous wastes: such treatment is required unless and until a temporary or formal delisting is nublished in the Federal Register (see 55260.20(e) and 260.22(m)).
- II. The Land Application Area indicated on the refinery's prighal Part A. Sated bovesher 18, 1980, also needs to be addressed. According to the information included in Port 3, Section III and Attachment A of the cripical Part A explication. Pock Island's Land Application Area was in existence on coverber 19, 1980. Subsequent to that date, solids resulting from the treatment of listed hazardous wastes were land disposed, pursuant to (261.2(c)) and (d) this is land application of hazardous waste and as such is swiject to 5265 until Final disposition of the permit application is made. The permit itself will require compliance with the \$265 regulations. If you are set seeting a permit for this unit, it must be closed in accordance with \$255.
- III. Wasterater produced from the vacuum filter also results from the treatment of a aspardous vests and equipality [36]. I(c) and (d) is itself a becardous paste. This water lectures excluded from the ROW permit regulations at it enters the serate system, this effluent is then requiated under MPDES permit liquevery between the vacuum filter and sever the water is requiated as a hazardous waste and two vacuum the assertion ladaous are subject to all FCRA requirements for surface impoundments.

IV. FARE A Defletencies

I As discussed in times I through [IF eleps the activities conducted by the policent which require it to obtain a permit which near have not all bees included in the rayland Cart & [INTO. 17 (all)]

Clerity whether SOS code dacings desive cariotty of her relative holding tanks and suction of he

Clarify whether the second Til code refers to the vacuum filter, and, if so why the capacity has been revised downward. If not why is the TIA code listed?

The DRI land application area is still part of the facility's hazardous waste activity end should be lociumed on the revised Part A, whether the process is still used or not. (See II above).

The basic sections and water popes (TDP) also are still received. Doth the SSAN words and land application area must remain on the perbit application until they are officially closed.

As mentioned in item (I) chows, the seration largons (TC2) should also appear on the revised Part A.

2 Topographic Fian

All hazardous waste camenoment units should be located on the topographic map, the intake and discharge structures should be identified, the direction of current on Uil Creek should be pions, and the latitude cives.

[3270.13 (1)]

- 4. Identify who issued the permits listed in attachment A and what these regults cover.
- 5. The process codes and design conscibles eaction (Form 9, 111.8) must be constituted and constituted filled out (see items 7 to 111 and 19.1 above).
- in include a statement explained the 2012 lastes are being removed Tracitic
- 7. Explain Wat is stored in the Pro-atorace area show on the facility

A BEAT OF FREEZENSES

- 1. All of the wasto arelyses (pp 11-128) are not identified. Are they all from the filter cake? Analyses should be fone on all types of managed bezardous waste prior be treament, storage; or disposal. (\$270,14(5)(2)).
- Vaste Adalysis Plan (Appendix A. come 110). The plan sepulo be revised to include analysis parameters with rationals, the procedure for collecting representables samples, and the frequency of analysis. (6256.13(5)(1)-(5)).

3; Security Description

- Supply the supervisory corsonacl's schedule as avidance of 24 hayr.
- * Provide up agenuate description of the Afres and Horas sentioned to
- * Provide is letail a description of the Warring sions, statement of PE-foot lacibility, and the exact location of sions.

4. General Inspection Schudule

- Frovide a statement as to where; exactly; the inspection schedule end inspection reports will be kent (52764.18(b)(%) and 265.15(d)).
- Provide a restedial action schedule. [1764.15(3)].
- Include the scretion lagrant and bests sediment and water praction the inspection schedule (52564.15(a) and 260.725).
- 1 Include the land application erea in the inspection schedule (%264.164a)

Tur Orenaredness and Provention (5270.14(b)(5)).

- To procribe the two-way communication system, e.g. mater of fewices, locations, accessivility, atc. (56264.32(a) and 264.24(a)).
- Document personnel access to the external contunication existen (5254.72(b)).
- Provide the number and location of fire extinuoushers and decontemination equipment.
- 5 Document the volume of water and water prossure available for Pine Common 16264-12(8)
- Include alsie width and Evith of Wilest apersoncy multiple (6264.25).
- Provide decimentation of energency envancements with local authorities (1264.27(c)). Only the permittions of those provides

Continuency Plan

- Provide documentation showing the qualifications and authority of those designated as margancy coordinators (ISSA DE).
- 2 Provide a detailed list of americanty equipment, decommation of equipment location, physical description of equipment and a statement of quipment capabilities (\$266.57(a))
- Provide specific criteria for the implementation of the evacuation has a fact that the primary routes are blocked.
- E Sumply the location of the facility's conv of the contingency plan and the moder and location of alternate copies (\$254.53).
- Tinclude all information bertipant to amending the contineency blan

7. Detailed Energency Procedures

- Provide a description of cleanup procedures and associated material testing enterial treating storage procedures, amorphory equipment decentarination and refittion procedures, and description of procedures to ensure incompatible waste segregation during clean-up (5770.14(5)).
- * Specify the procedure to be used to essess environmental and human health hazards during an energoncy (\$1270,18(5)(7), sed 56).
- 5. Specify Contingency Plan Regulaments, for Surface Impoundments.

tions of these requirements have seen addressed.

- * Protective for stoneing waste addition
- f procedure for containing leaking
- 1 Procedure to prevent cetestrophic fellure
- * Procedure for embying the impoundment
- 2 Arocedure for recertifying and reactivating impossement
- A procedure for closing importment

(Sec. \$5270.14(b)(f), 270.17(f) and 264.227).

o. Preventivo Procedures, Structures, and Footpleas.

Describe the equipment and procedures to be seed to prevent run-off and floodings. Also, explain what stops will be taken to pitfeate equipment Callure and Douer outlages (\$275.14(b)(F))

in Traffic Patterns. Provide a detailed decimentation of waste envement routes, mamber of covements by type of vehicles quantity of waste per povement per vehicle, and proffic control signals (1770.12(1)(10)).

it Personel Training Program Decementation:

Supply & brief description of how the training program meets actual tasks as well as a description of records to be kent, their location, and procesures to earlies they are madeline for the name: length of the [15:77]. La(b)(12).

12. Chause Plan Daguestation

- Provide a description of the maximum unclosed portion during facility life. List trackable intervenies closure activities, the location and marker of copies of the closure plan, provide as identification of the person responsible for storage and application the facility copy of the closure plan, and give the procedure for specific all other copies of the closure plan (527), le(b)(13)).
- 13. Clears Fian Resirements for Surface Importments
 - Provide a): Information required under (50270:14(b)(13)), 270,17(g); 2764.112; and 204.226(a) for the basic sediment and water pands; are action, lagocos, and suction pits.
- 18. Closure Plan Requirements for Land Treatment Facilities.
 - Provide all information required under Se27s.14(1)(13), 27s.2s(f), 261.112, and 264.280(4) for the land application area.
- 18. Post Closure Plan Rockmestation.
 - Provide all information requires under \$270.14(b)(13), \$254.117, \$254.118, \$6 sure to include the information relevant to the surface impoundments (5278.17(g),254.228(6)), and land treatment area (5270.20(f), 254.280(c)).
- 16. Pursuant to 19275.14(b)(19) and 204.130, documentation should be provided to show that a Porice has been placed on the facility's deed indicating that the land has been used to parage hazardous waste.
- 17. Provide a Post-Clusure cost astimate (5-270.14(b)(15), 264.144 through 261.146. and 264.151).
- 18. Provide decumentation of insurance for membedden accidents (69270.1%(b)(17).
- io. Subsit a detailed topographic tap containing all of the items required by 5770.14(b)(19).
- 20. Provide the specific Part & requirements for surface impoundments (65279.17.
- 21. Provide the specific Peri & requirements for land treatment facilities (\$3270.20, 264.272).
- 20. Resubuit the certification paragraph using the newton format Idoly 1, 1954)
 of 5270.11(4), and provide information assuming that the signatory meets the
 oritoria of 5270.11(4)(1)(1)(1) or (31).

1 7 MAY 1985

5HS-13

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

William Laque Rock Island Refining Corporation Environmental Coordinator Post Office Box 68007 Indianapolis, Indiana 46268

> Re: Additional New Requirements Hazardous and Solid Waste Amendments of 1984 (HSWA)

> > Rock Island Refining Corporation IND 006417430

Dear

Mr. Laque:
On November 8, 1984, the Hazardous and Solid Waste Amendments of 1984 (HSWA)
were signed into law. These Amendments add a number of requirements for your
facility which must be addressed before we can issue a permit. A formal request
for the submittal of Part B of the Resource Conservation and Recovery Act
(RCRA) permit application for treatment, storage, or disposal of hazardous
waste had already been made for the above-referenced facility.

The purpose of this letter is to notify you that your RCRA Part B Permit Application must be revised to incorporate the requirements of the Hazardous and Solid Waste Amendments of 1984. The revisions to your Part B application should be submitted no later than August 8, 1985.

This request for a revision to your RCRA Part B permit application and the associated due date of August 8, 1985, for submitting your revisions are related only to the new requirements brought about by the 1984 Amendments. In the meantime, the review and processing of the Part B application you have already submitted will continue and you may be required to make corrections and revisions to your original Part B application that will need to be submitted prior to August 8, 1985.

298-12

Enclosed, for your information, is a fact sheet, a brief guidance document, and a copy of selected statute sections on the new requirements. I urge you to examine the enclosures as soon as possible, because target dates under HSWA begin as early as May 8, 1985. For two of the new requirements, exposure assessments and the double liner requirements, additional guidance being developed by EPA Headquarters will be provided to land disposal permit applicants as soon as they become available.

Please contact the previously identified permit writer with our Agency for additional information.

Sincerely yours,

David A. Stringham, Acting Chief

Solid Waste Branch

Enclosures

	TYPIST	AUTHOR	STU #1	STU #2	STU #3	TPS	WMB	MMD.
INITIALS	5/16/65		CHIEF	CHIEF	CHIEF	CHIEF	CHIEF	DIRECTUR
DATE	81					1/5/	5/24	zzama

THE STATE OF THE S

INDIANAPOLIS 46206

1330 West Michigan Street

STREAM POLLUTION CONTROL BOARD

August - 5, 1981

Mr. William E. Laque Environmental Coordinator Rock Island Refining Corporation P.O. Box 68007 Indianapolis, IN 46268

Dear Mr. Laque:

This agency has reviewed your proposal for land application of oily material from the Rock Island Refining Corporation's east and west basic sediments and water pends.

Application of this material is to be a one-time application and, according to information supplied by your Corporation, material to be applied should not appreciably increase the soil concentration of lead or chromium after incorporation. Therefore, land application of the material is not expected by your Corporation to affect characteristics of stormwater runoff from the application site.

Based on the above, this agency does not believe that this land application proposal warrants a modification of the NPDES permit for your facility.

However, since there is at least a possibility that storm water runoff from this area may be contaminated, this agency requests that, after the initial land application of material from the basic sediments and water pond, the storm water that accumulates shall be sampled as outlined below before being discharged to the receiving stream. A grab sample of the storm water shall be analyzed for oil and grease, total copper, total chromium, total lead, total selenium, and total cyanide. These are the only constituents of the material to be applied that pose a potential of adverse water quality impact if present in the runoff. A representative diked area that received material from the west basic sediments and water pond shall be sampled and analyzed for all effluent parameters except for selenium, which shall be sampled and analyzed for from an area receiving the material contained in the east basic sediment and water pond.

The analyses shall be submitted to this office for this agency's approval prior to discharge. After this agency grants approval for discharge, then the water may be discharged from all diked areas without further sampling.

After the initial discharge is approved, the subsequent storm water may be discharged without being sampled. However, every three months after the initial discharge, samples shall be taken and analyzed as described above. This quarterly sampling shall continue for one year from the date of land application. This agency will review the results as they are submitted to this office and may make changes in these monitoring requirements or may initiate a modification of the permit if deemed necessary. Sampling results shall be submitted to the Permits and Approvals Section of the Division of Water Pollution Control, Indiana State Board of Health.

Very truly yours,

Ralph C. Pickard

Acting Technical Secretary

RStrong/reg

cc: George Pendygraft



ROCK ISLAND REFINING

Corporation

AFR 28 8 OS AM 81

STATE ECA: U CT HEALTH

April 28, 1981

Mr. Ralph Pickard, Technical Secretary Indiana State Board of Health 1330 West Michigan Street Indianapolis, Indiana 46202

Re: Rock Island Land Application Project,

Marion County

Dear Mr. Pickard:

On November 18, 1980, the Technical Secretary for the Indiana Environmental Management Board issued Construction Plan Permit SW242 (the "Construction Permit") for land treatment at the Rock Island Refining Corporation ("Rock Island") plant located at 5000 West 86th Street, Indianapolis, Indiana. On December 18, 1980, representatives of Rock Island and its consultant, Atec Associates, Inc., met with Solid Waste Management Section staff to discuss those conditions in the Construction Permit which needed further definition. At this meeting, staff specified that the location for the ground water monitoring wells and pressure vacuum lysimeters would be required for area #1, the area which would receive materials on a continuing basis. For the remaining area (areas 2 through 17), which are to be used on a one-time basis only for application of oily materials now contained in Rock Island's basic sediments and water ponds (the BS&W materials), the staff confirmed that no ground water monitoring wells or lysimeters were necessary.

Prior to land application in the areas receiving BS&W materials only, the staff indicated and later confirmed by letter of January 20, 1981 that analyses for chromium (hexavalent), cadmium, lead, selenium and pH are required for soil borings 7, 9 and 12 (described in Attachment 2 of the supplemental materials provided the Solid Waste Management Section by Rock Island on October 23, 1980). Completion of sampling and testing will be completed in the next few weeks. The results will be forwarded to the Solid Waste Management staff promptly.

Mr. Ralph Pickard, Technical Secretary 4-28-81 -2-

It is advantageous to begin land application of the BS&W materials as soon as possible and, therefore, Rock Island requests issuance of an operating permit for areas 2 through 17.

Should questions arise or additional information be needed, please call the undersigned at your earliest convenience.

Very truly yours,

William E. Laque

Environmental Coordinator

WEL/mhj

cc: Mr. David Lamm

Mr. Bruce Palin

Ms. Karyl Schmidt

Mr. George Pendygraft, Baker/Daniels

STATE BOARD OF HEALTH

INDIANAPOLIS

PFFICE MEMORANDUM

DATE: October 21, 1980

TO:

Rock Island Refinery Files

Marion County

THRU:

FROM:

Bruce Palin GW

SUBJECT:

Public Notice of Intent to Issue

a Permit

On October 15, 1980, I met with Mr. George Pendygraft and Mr. Bill Laque concerning a proposal they are developing for a land application project for Rock Island Refinery. During our meeting I mentioned the potential need for a public notice of intent to issue a permit for their project. Such a requirement would put the issuance of a permit past the November 19, 1980, deadline for existing facilities to receive interim authorization from the U.S. EPA. Mr. Pendygraft stated he had attended the September Environmental Management Board Meeting and it was his understanding any facility with an application submitted prior to the EMB meeting, September 19, 1980, would not be public noticed. I told him I thought it was September 1, 1980, the effective date of the law. I also questioned whether their letter, dated September 9, 1980, would be considered an application. I told them I would get an interpretation from Mr. Pickard.

That afternoon I met with Mr. Pickard and related the situation to him and showed him Rock Island's "application" letter. Mr. Pickard seemed to recall the cutoff date was September 1, but he would check with his secretary the next morning to see what she had in her notes on the minutes of the meeting. However, he felt that the Board was addressing the public notice requirements in relation to hazardous waste landfill sites and that the Rock Island proposal did not fall into that category and, therefore, would not be subject to public notice.

On October 16, 1980, Mr. Pickard called me and told me the EMB minutes indicated that September 1 was the cut off date the Board agreed upon.

BHPalin/le

STATE BOARD OF HEALTH

INDIANAPOLIS

OFFICE MEMORANDUM

DATE: September 11, 1980

TO:

Files

THRU:

FROM:

David D. Lamm () 9/12/50

SUBJECT: Rock Island Refinery/Land Application Proposal

On September 5, 1980 I met with Jo Carney and George Pendygast of Baker & Daniels and Bill Laque of Rock Island relative to the above.

The refinery has 2 lagoons on site they want to clean out. Material is presently being pumped and hauled to ILWD. At some point in the very near future it will be necessary for them to deal with the disposal of the sides, bottoms, etc.

What they initially proposed was a landfarming proposal (following format of Mt. Vernon) that they would close out by November 15, 1980. After that date, material would be removed on a more continous basis obviating the need for any lagooning.

The lagoons (basic sediments and wastewater) presently contain waste materials from:

- 1.) DAF devices
- 2.) API separator sludge
- 3.) cooling tower blowdown

They originally thought that they could get some sort of nonobject letter to this proposal. However, after pointing out that the EMA amendments were in effect that proposal wasn't viable. (there was of course some legal maneuvering to try and point out that since the regs weren't developed they could continue as they wanted)

At any rate, it now appears that they will develop a landfarming program similar to Farm Bureaus and submit that ASAP. I advised them that it would be necessary to contact Karyl Schmidt for input on the geologic requirements necessary.

DDL/dg

cc: Karyl Schmidt Guinn Doyle V Bruce Palin

BAKER & DANIELS

810 FLETCHER TRUST BUILDING

INDIANAPOLIS, INDIANA 46204

317-636-4535

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PAUL K. BOWE

September 9, 1980

Mr. Ralph C. Pickard Technical Secretary Indiana Environmental Management Board 1330 West Michigan Street Indianapolis, Indiana 46202

Dear Mr. Pickard:

Rock Island Refining Corporation wishes to apply for a permit to land treat some of the wastes from its refining operation in Marion County, Indiana. We have discussed this matter with David Lamm, Chief, Solid Waste Management Section, and enclose the application in the form he suggested. In that discussion we realized that it is very important to Rock Island to have this permit as soon as possible because of the impact of the Resource Conservation and Recovery Act ("RCRA") and its implementing regulations. As a result Rock Island will provide promptly any additional information you may need. Also, George Pendygraft and I are available to respond to any questions you have. We appreciate your assistance in obtaining timely approval.

Very truly yours,

Fruch B. Gan

Joseph B. Carney

JBC:am

Enclosure

cc: William E. Laque

David Lamm w/enclosure



ROCK ISLAND REFINING

Corporation

belg/15

September 9, 1980

Mr. Ralph C. Pickard Technical Secretary Indiana Environmental Management Board 1330 West Michigan Street Indianapolis, Indiana 46202

> Re: Application For Provisional Permit For Land Treatment At Rock Island Refining Corporation

Dear Mr. Pickard:

Rock Island Refining Corporation, an Indiana corporation ("Rock Island"), 5000 West 86th Street, Indianapolis, Indiana, owns and operates a petroleum refinery in Marion County, Indiana. In the normal course of its petroleum refining operations, Rock Island generates materials variously described as slop oil emulsion solids, heat exchanger bundle cleaning sludges, API separator sludges and leaded tank bottoms. Some of these materials have been stored in diked lagoons, known as basic sediments and wastewater ponds ("BS&Ws"). The recoverable oil has been skimmed off the top and recycled and the heavier portions have accumulated. Rock Island has two such BS&Ws, an "East BS&W" of about one-half acre in size and a "West BS&W" of about one-third of an acre.

The options available for treating or disposing of materials in the BS&Ws and those additional materials continually generated by the refining operations are very limited. Based on its review of those options and discussion with outside consultants, Rock Island has concluded that land application of these materials is the best feasible method of treatment. In land treatment the materials will be applied to the land in appropriate amounts, depending on the content of the materials, and appropriate safeguards will be employed, if necessary, to avoid any danger to the environment. Mostly, however, the hydrocarbons in these materials biodegrade by exposure to the natural soil microorganisms (bacteria). It is the intention of Rock Island to land treat both the material now in the BS&Ws and the material after it is generated in the future.

Having recognized that land treatment is the most rectical approach, Rock Island preliminarily reviewed sible sites for such disposal. In this review Rock considered the effect on the site, the drainage through or near the site, the energy requirements necessary to transport the materials to the site and other pertinent factors. It appears to Rock Island that its own site, that is, the land in and around the refinery, including the large tank farm, is suitable and the most practical location. As result, without undertaking to determine whether these exterials are hazardous wastes within the meaning of Indiana Rock Island makes application for a provisional permit for land treatment at its plant site in Marion County, Indiana, pursuant to Indiana Acts of 1980, Public Law 103. In order to facilitate the prompt consideration of this permit application, Rock Island will submit the necessary technical reports, and a comprehensive description of the complete proposal, as soon as each becomes available.

We are being assisted in this application by our attorneys, Baker & Daniels, and you are welcome to call on either Joe Carney or George Pendygraft of that office if you have questions. If there are additional factual matters needed, please telephone the undersigned.

Respectfully submitted,

ROCK ISLAND REFINING CORPORATION

William E. Laque

Environmental Coordinator

cc: David D. Lamm Indiana State Board of Health Solid Waste Management Section, Rm. A302 1330 West Michigan Street Indianapolis, Indiana 46206

Joseph B. Carney 810 Fletcher Trust Building Indianapolis, Indiana 46204 317/636-4535

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ROCK ISLAND REFINING CORPORATION

(IND006417430)

PART B APPLICATION

As Filed With The

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
Region V
P. O. Box A3587
Chicago, Illinois 60690-3587

on

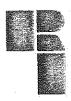
February 28, 1985

Prepared By

William E. Laque Environmental Coordinator Rock Island Refining Corporation 5000 West 86th Street Indianapolis, Indiana 46268 (317/872-3200)

anđ

George W. Pendygraft, Ph.D., J.D. Baker & Daniels 810 Fletcher Trust Building Indianapolis, Indiana 46204 (317/264-1784)



ROCK ISLAND REFINING

Corporation

February 28, 1985

RCRA Activities
Part B Permit Application
United States Environmental
Protection Agency
P. O. Box A3587
Chicago, Illinois 60690-3587

Attention: Karl J. Klepitsch, Jr., Chief

. Mart 1/5 1000

Waste Management Branch

Dear Mr. Klepitsch:

VIII-RAII EPS REGION :

Rock Island Refining Corporation (Rock Island), 5000 West 86th Street, Indianapolis, Indiana, hereby submits its Part B application for those treatment and storage facilities at its refinery subject to the requirements of the Resource Conservation and Recovery Act and regulations promulgated thereunder.

We would be pleased to meet with you or your staff to discuss any preliminary comments you or staff may have with regard to this Part B application. Please call if you have questions or need of additional information.

Very truly yours,

William E. Laque

Environmental Coordinator

WEL:sy Enclosure

cc w/o enc.: Mrs. Edith Ardiente

George W. Pendygraft, Ph.D., J.D.

CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

ROCK ISLAND REFINING CORPORATION

y William E. Laque/

Environmental Coordinator

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SECTION I

ACKNOWLEDGEMENT OF NOTIFICATION OF HAZARDOUS WASTE ACTIVITY

(8/18/80)



ACKNOWLEDGEMENT OF NOTIFICATION OF HAZARDOUS WASTE ACTIVITY

Cecto Me

This is to acknowledge that you have filed a Notification of Hazardous Waste Activity for the installation located at the address shown in the box below to comply with Section 3010 of the Resource Conservation and Recovery Act (RCRA). Your EPA Identification Number for that installation appears in the box below. The EPA Identification Number must be included on all shipping manifests for transporting hazardous wastes; on all Annual Reports that generators of hazardous waste, and owners and operators of hazardous waste treatment, storage and disposal facilities must file with EPA; on all applications for a Federal Hazardous Waste Permit; and other hazardous waste management reports and documents required under Subtitle C of RCRA.



EPA Form 8700-12A (4-80)

THOODER 17430

ROCK ISLAND REFIRING CORP
PO BOX 68007
INDIANAPOLIS

SOOD W B6TH ST
INDIANAPOLIS

IN 46268



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION V 230 SOUTH DEARBORN ST. CHICAGO, ILLINOIS 60604

REPLY TO ATTENTION OF:

Date: November 13, 1980

To: RCRA NOTIFIERS

Subject: EPA IDENTIFICATION NUMBERS



It is my understanding that our Headquarters has not sent you an acknowledgement of the notification which you filed with this Agency. By manual search of our Regional files we have retrieved the identification number for your facility located at the address given on your notification. It is shown on the label below:

You will receive an official acknowledgement from our Headquarters for your operation at this address in the very near future.

Sincerely,

Karl J. Klepitsch, Jr., Chief

Waste Management Branch

SECTION II

Α.	Original	Part	A	Application	(11/	/18/80]
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B. Revised Part A Application (2/27/85)

ORIGINAL PART A APPLICATION (11/18/80)

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EPA Form 3510-1 (6-80)

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treatment, storage, or disposal facilities, and each well where it injury	ects fluids underground. Include all springs, rivers and other surface
water bodies in the map area. See instructions for precise requiremen	
XII. NATURE OF BUSINESS (provide a brief description)	
All. WAT ONE OF BOSINESS (provide a brief description)	
Rock Island Refining Corporation ow	ns and operates a reilnery that
produces gasoline, kerosene (range	oil or #1 ruel oil), distillate
fuel oils, residual fuel oils, and	other products from crude petroleum
and its fractionation products, thr	ough straight distillation of crude
oil, redistillation of unfinished p	etroleum derivatives, cracking
or other processes.	
	·
	·
XIII. CERTIFICATION (see instructions)	
	am familiar with the information submitted in this application and all
	mediately responsible for obtaining the information contained in the
	mplete. I am aware that there are significant penalties for submitting
false information, including the possibility of fine and imprisonment	
	The services
	TURE C. DATE SIGNED
E. Bynum, Sr. V.P. Mfg.	11/18/80
E. Bynum, Sr. V.P. Mfg.	

REVERSE

ATTACHMENT A

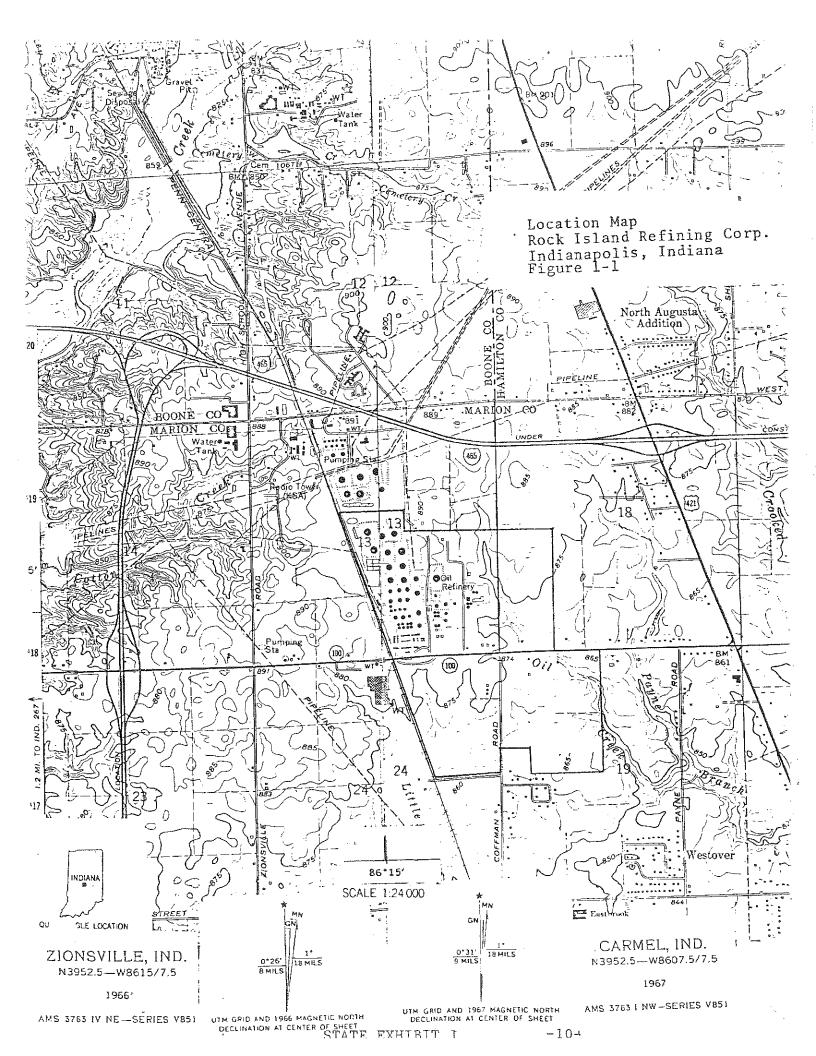
"X. Existing Environmental Permits E. Other (Specify)"

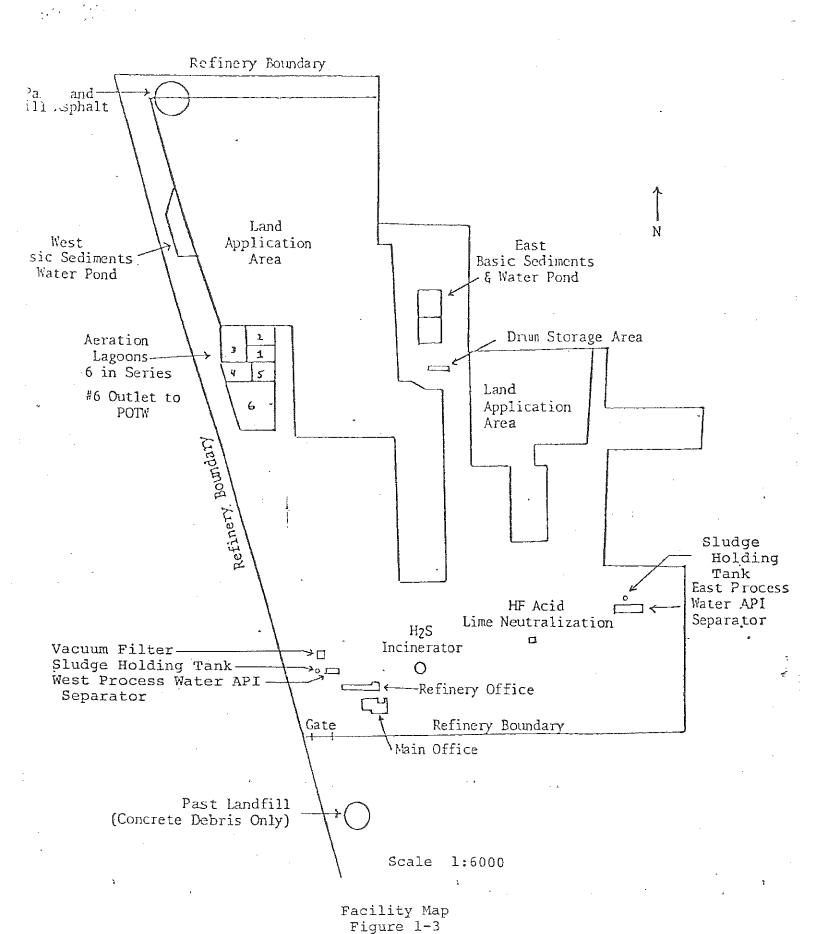
Permit Nos. 06301, 06304, 06305, 06306, 06307, 06308, 06309, 06310, 06311, 06312, 06313, 06314, 06315, 06316, 06317, 06318, 06319, 06320, 06321, 06322, 06323, 06324, 06325, 06326, 06327, 06328, 06329, 06330, 06331, 06332, 06333, 06334, 06335, 06336, 06337, 06338, 06339, 06340, 06341, and 06342 were issued to Rock Island by the Indianapolis Department of Public Works, Air Pollution Control Division ("IAPCD"). In addition, Rock Island has applications for air permits pending before the IAPCD. The Indiana Air Pollution Control Board has issued to Rock Island a PSD Permit No. PC(49) 1277.

ATTACHMENT B

"XI. MAP"

- Figure 1-1. Location Map. This figure presents a topographic map of the area in and around the facility. The legal boundaries of the facility are shown in red on the "Location Map."
- Figure 1-2. Refinery Site Map. This map indicates the location of the NPDES outfalls and the existing discharge structure at the facility.
- Figure 1-3. Facility Map. This map shows all hazardous waste management facilities.
- Figure 1-4. Approximate Water Well Location Map. This shows the drinking water wells located within 1/4 mile of the facility.





STATE EXHIBIT 1

Ex. 9 LWells

APPROXIMATE WATER WELL LOCATION MAP

FIGURE 1-4

STATE EXHIBIT 1

Please print or type	in the unstrated	arcas or	nly		
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FOR OFFICIAL				2.0	
APPLICATION D	ATE RECEIVED yr., mo., & day)				COMMEN
23 24	- 79				
II. FIRST OR RE	EVISED APPLI	ICATIO	ON Z		
revised application. EPA LD. Number in	If this is your fi I ltem I above,	rst appi	ication and you alre	ady know your fa	cate whether this is the cility's EPA I.D. Numb
A. FIRST APPLI					
XIII. EXISTII			ructions for definiti te item below.)	on of "existing" f	acility.
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B. REVISED AP	PLICATION (E			nplete Item I aboi	re) .
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PROCI	599	CODE	DESIGN CAP	ALILY	PROCESS
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TANK WASTE PILE		S02 S03	GALLONS OR LI	TERS	SURFACE IMPOUNT
SURFACE IMPO	UNDMENT	S04	CUBIC METERS GALLONS OR LI	TERS	INCINERATOR
posal:					

Plea: (fill-	е рг - <i>in a</i>	int or i <i>reas ai</i>	type in the unstidued in the spaced for elite type	aicas o 9, <i>i.e.,</i>	nly 12 characters/ii	nch).							Form Approved OMB No.	. 158-S8000	4	
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	71 		•	Comple	rte item below.)							•	MPIETE ITEM FOR NEW FA PROVIDE TH	ACILITIES.	
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е	nter	ing co	des. If more lines are e process <i>(including it</i> s	needec	i, enter the cod	le(s) in th	ie spa	ce prov	rided. I	fac	OLOC	ess	will be used that is not included in the li-	it of codes be	elow,,then	
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EPA Form 3510-3 (6-80)

PAGE 1 OF 5

CONTINUE ON REVERSE

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2.1	i KU	3(1) 1	1.5 ///	intinue	71

SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESSES (code "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

TO4. The vacuum filter process is used to reduce the water content of materials.

IV. DESCRIPTION OF HAZARDOUS WASTES

- A. EPA HAZARDOUS WASTE NUMBER Enter the four-digit number from 40 CFR, Subpart D for each listed hazardous waste you will handle. If you handle hazardous wastes which are not listed in 40 CFR, Subpart D, enter the four-digit number/si from 40 CFR, Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes,
- B. ESTIMATED ANNUAL QUANTITY For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste/s/ that will be handled which possess that characteristic or contaminant.
- C. UNIT OF MEASURE For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate

ENGLISH UNIT OF MEASURE CO	DE.	METRIC UNIT OF MEASURE C	CODE
POUNDSP	•	KILOGRAMS	, K
TONS		METRIC TONS	, M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:

For listed hazardous waste: For each listed hazardous waste entered in column A select the code/s/ from the list of process codes contained in Item III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed hazardous wastes: For each characteristic or toxic contaminant entered in column A, select the code(s) from the list of process codes contained in Item III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER - Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

- 1. Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B,C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
- in column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.
- 3. Repeat step 2 for each other EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING ITEM IV (shown in line numbers X-1, X-2, X-3, and X-4 below) — A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfilt.

Ī			EP/						UNI												D. PROCESSES
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X-4	D	0	0	2				- Printed Strategies							1	-		1	The same of the sa	ī	included with above

NOTE: Photocopy this page before completing if you have more than 26 wastes to list. EPA LD. NUMBER (enter from page 1) FOR OFFICIAL USE ONLY N D 0 0 I 0 W DUP DUP IV. DESCRIPTION OF HAZARDOUS WASTES (continued) A. EPA HAZARD. WASTENO C. UNIT OF MEA-SURE (enter code) D. PROCESSES B. ESTIMATED ANNUAL QUANTITY OF WASTE 1. PROCESS CODES (enter) 2. PROCESS DESCRIPTION (if a code is not entered in D(1)) (enter code) 36 2.9 2.7 K 0 4 9 312 т T Ol 2 0 5 312 T S O 2 T O 4 D 8 1 See Attachment B 3 3 4 T (52)T 0 1 See Attachment B 5 (175)T O 3 See Attachment B 5 (0.33)Т T O 1K O 0 6 0 5 2|See Attachment B See Attachment B (7,750)D 8 1 ${f T}$ 8 9 10 11 13 14 15 16 17 18 19 20 21 22 23 24 26 EPA Form 3510-3 (6-80) CONTINUE ON REVERSE

:PA Form 3510-3 (6-80)

N.A.

V, FACILITY DRAWING (see page 4)

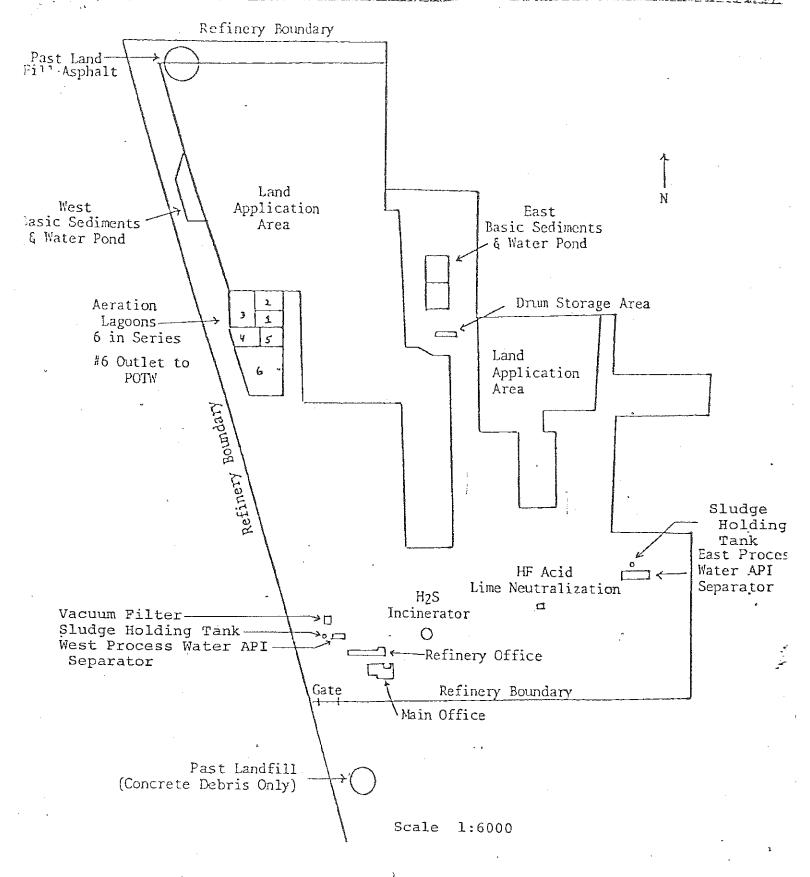


Figure 3-1 (See Attachment C)

ATTACHMENT A

II. First or Revised Application (continued)

A. First Application

The date operation began or construction commenced is set out below for each of the hazardous waste facilities:

<u>Facility</u>	Year	Month	Day
API Separator (West)	1941	October	10
API Separator (East)	1959	August	12
Sludge Holding Tanks	1980	August	
Alkylation Unit, HF-lime neutralization (see Attachment B) Sulfur Recovery Unit,	1966	November	8
H ₂ S Incinerator (<u>see</u> Attachment B)	1978	May	5
Vacuum filter	1950	August	28
Land application	1980	November	19

ATTACHMENT B

Form 3 RCRA

"IV. DESCRIPTION OF HAZARDOUS WASTES" (continued)

Line No.

- 3 and 4 Ul34 and Ul35. Hydrofluoric (HF) acid is neutralized at the facility by the use of lime (see Attachment A). Hydrogen sulfide (H₂S) is incinerated at the facility (see Attachment A). Rock Island Refining Corporation ("Rock Island") does not discard or intend to discard these materials (HF and H₂S) and takes the position that they are not hazardous wastes. See 40 C.F.R. § 261.33, 45 Fed. Reg. 33084, 33124 (May 19, 1980). Pending a concurring determination by EPA, however, Rock Island has provided the information required for interim status.
- 5 and 6 KO50 and KO52. Rock Island understands that heat exchanger bundle cleaning sludge is exempt from regulation until it is removed from the unit in which it is generated. 40 C.F.R. § 261.4(c), 45 Fed Reg. 72024, 72028 (Oct. 30, 1980). Pursuant to the same section of the regulations, Rock Island assumes that the materials (tank bottoms or KO52) settled in its large storage tanks are also exempt until they exit the storage tanks.
- Rock Island has two ponds previously used to store basic sediments and water (BS&W") at the facility.

 See Figure 3-1. These BS&W ponds contain an estimated 250,000 ft³ of materials (or 7,750 tons at an assumed density of 62 lbs/ft³), which wastes were likely derived, in part, from one or more of the specific sources designated as KO49, KO50, KO51 and KO52. These ponds are now (November 19, 1980) "inactive" and are not subject to the interim status standards. Based on studies and the available information as to the specific

ATTACHMENT B (Continued)

materials in its BS&W ponds ("BS&W materials"), Rock Island has determined that these BS&W materials are not ignitable, corrosive, or reactive and do not exhibit the characteristic of EP toxicity as defined by EPA's regulations. 40 C.F.R. § 261.21, 261.22, 261.23 and 261.24. As this mixture of BS&W materials, including materials from one or more of the specific sources, KO49, KO50, KO51 and KO52 (40 C.F.R. § 261.32), occured prior to November 19, 1980, Rock Island understands that the materials are not hazardous wastes, per se. Moreover, because these BS&W materials do not exhibit any of the Subpart C characteristics of hazardous wastes, Rock Island concludes that they are not hazardous wastes for purposes of Subtitle C of the Resource Conservation and Recovery Act. Pending a concurring determination by EPA, however, Rock Island has provided the required information.

ATTACHMENT C

- "V. Facility Drawing" (continued)
- Figure 3-1. See page 5, supra; see also Figure 1-3 (the same map).
- Figure 3-2. Refinery Site Map. See Figure 1-2
 (the same map). This map provides the approximate dimensions of the property boundaries and all storage, treatment and disposal areas.

8 0 4 D L Refinery Site Map Figure 3-2 EGEIVE 9 ##R 0 5 1085 WWD.EAIU EPA REGION V 日 は 一 に に は 日 の 日 DFP R. d 3 7 7 1 BALEC SOSIE INDIANE 7 A 7 RETIZERY Q 4 I) ROCK I THE STATE OF THE 0 x 6 7 0 < -1 P. T. COP TO 0 Z マーナル CANCID TIETS 及呼が言えられる

-77-

STATE EXHIBIT 1

ATTACHMENT D

"VE: Photographs"

REVISED PART A APPLICATION (2/27/85)

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FORM U.S. ENVIRONMENTAL PROTECTION AGENCY	I. EPA I.D. NUMBER
GENERAL INFORMATION Consolidated Permits Program	FIND006427430
GENERAL (Read the "Oeneral Instructions" before starting.)	GENERAL INSTRUCTIONS
I. SPA I.D. NUMBER	If a preprinted tabal has been provided off
IND006417430	I it in the designated space. Review the inform
Rock Island Refining Corporation	ation carefully; if any of it is incorrect, cro through it and enter the correct data in it
5000 West 86th Street	appropriate fill-in area below. Also, if any of the preprinted data is absent (the area to the
FACILITY Indianapolis, Indiana 46268	left of the label space lists the information
MAILING ADDRESS	that should appear), please provide is in the proper fill—in area(s) below. If the label
5000 West 86th Street	Tomplets and correct, you need not complete
Indianapolis, Indiana 46269	Items I, III, V, and VI (except VI-B white must be completed regardless). Complete a
VI. LOCATION	Items if no lebel has been provided. Refer to the instructions for detailed hem descri
	tions and for the legal authorizations und
	which this data is collected.
II. POLLUTANT CHARACTERISTICS	
INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application	
questions, you must submit this form and the supplemental form listed in the parenthesis following the questions, you must submit this form and the supplemental form listed in the parenthesis following the questions, you	
If the supplemental form is attached. If you answer "no" to each question, you need not submit any of the is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instruction	
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	QUESTIONS YES MO ATTACK
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to waters of the U.S. other than those described in X N.A. In A or B above) which	ty <i>lother than those described</i> In will result in a discharge to X
A or 8 above? (FORM 2C) 22 23 24 waters of the U.S.? (FO	RM 2D) 25 26 SP
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nazardous wastest (FORM 3) X X taining, within one qu	uarter mile of the well bore, X drinking water? (FORM 4)
G. Dr. you or will you spect at this facility any produced	
	ect at this facility fluids for spe- mining of sulfur by the Frasch
duction, inject fluids used for enhanced recovery of	ng of minerals, in situ combus-
oil or natural gas, or inject fluids for storage of liquid A (FORM 4) (FORM 4)	ecovery of geothermal energy? X
I. Is this facility a proposed stationary source which is Is this facility a propo	sed stationary source which is
	dustrial categories listed in the will potentially emit 250 tons
per year of any air pollutant regulated under the per year of any air pollutant Clean Air Act and may affect or be located in an Air Act and may affect	utant regulated under the Clean t or be located in an attainment
attainment area? (FORM 5)	43 44 69
IIL NAME OF FACILITY	
1 SKIP Rock Island Refining Corporati	
15 115 - 29 230	69
IV. FACILITY CONTACT	
A. NAME & TITLE (last, first, & fitle)	B. PHONE (area code & no.)
2 Laque William E Environ Coord 3:	17 872 3200
V. FACILITY MAILING ADDRESS	- 48 A9 - 31 5Z - 58
A. STREET OR P.O. BOX	The state of the s
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B. CITY OR TOWN C.STATE D. ZIP CO	DDE
	The state of the s
4 Indianapolis. IN 462	
VI. FACILITY LOCATION	
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	B. is the name listed in them VIII-A also the
ROCK Island Refining	To the second se
water the state of	Corporation Gyes No
c. STATUS OF OPERATOR (Enter the appropriate letter into	
F = FEDERAL M = PUBLIC (other than federal or state)	(specify)
S = STATE O = OTHER (specify) P = PRIVATE	A 3 1 7 8 7 2 3 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
E. STREET OR P.O. BOX	The state of the s
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X. EXISTING ENVIRONMENTAL PERMITS A. NPDES (Discharges to Surface Water) D. PSD (A)	r Emissions from Proposed Sources
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B. UIC (Underground Injection of Fluids)	E. OTHER (specify)
9 0	N. 2911011 (specify) Discharge to
15 16 17 18 50 15 16 17 18 C. RCRA (Hazardous Wastes)	E OTHER (specify)
	(specify)
9 . S	ee attach A
XI. MAP	
Attach to this application a topographic map of the area ex	ctending to at least one mile beyond property bounderies. The map must show ting and proposed intake and discharge structures, each of its hazardous waste
treatment, storage, or disposal facilities, and each well wh	here it injects fluids underground. Include all springs, rivers and other surface
water bodies in the map area. See instructions for precise re	quirements. See attachment B
XIL NATURE OF BUSINESS (provide a brief description)	
Rock Teland Refining Corporation owns a	nd operates a refinery that produces gasoline, kerosene
	uel oils, residual fuel oils, and other products from
crude petroleum and its fractionation p	roducts, through straight distillation of crude oil,
redistillation of unfinished petroleum	derivatives, cracking or other processes.
XIII. CERTIFICATION (see instructions)	
I certify under penalty of law that I have personally exam	nined and am familiar with the information submitted in this application and all ersons immediately responsible for obtaining the information contained in the
application, I believe that the information is true, accura	te and complete. I am aware that there are significant penalties for submitting
false information, including the possibility of fine and imp	risonment.
AME & OFFICIAL TITLE (type or print)	B. SIGNATURE C. DATE SIGNED
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COMMENTS FOR OFFICIAL USE ONLY	2-28-85
C	
EPA Form 3510-1 (6-80) REVERSE	

ATTACHMENT A

"X Existing Environmental Permits E. Other (Specify)"

Permit Nos. 07509, 07510, 07511, 07512, 07513, 07514, 07515, 07516, 07517, 07518, 07519, 07520, 07521, 07522, 07523, 07524, 07525, 07526, 07527, 07528, 07529, 07530, 07869, 07870, 07871, 07872, 07873, 07874, 07875, 07876, 07877, 07878, 07879, 07880, 07881, 07882, 07883, 07884, 07885. Note that permit numbers have been changed due to expiration and reissuance of specified permits.

ATTACHMENT B

"XI. MAP"

- Figure 1-1. Location Map. This figure presents a topographic map of the area in and around the facility. The legal boundaries of the facility are shown in red on the "Location Map."
- Figure 1-2. Refinery Site Map. This map indicates the location of the NPDES outfalls and the existing discharge structure at the facility.
- Figure 1-3. Facility Map. This map shows all hazardous waste management facilities.
- Figure 1-4. Approximate Water Well Location Map. This shows the drinking water wells located within 1/4 mile of the facility.

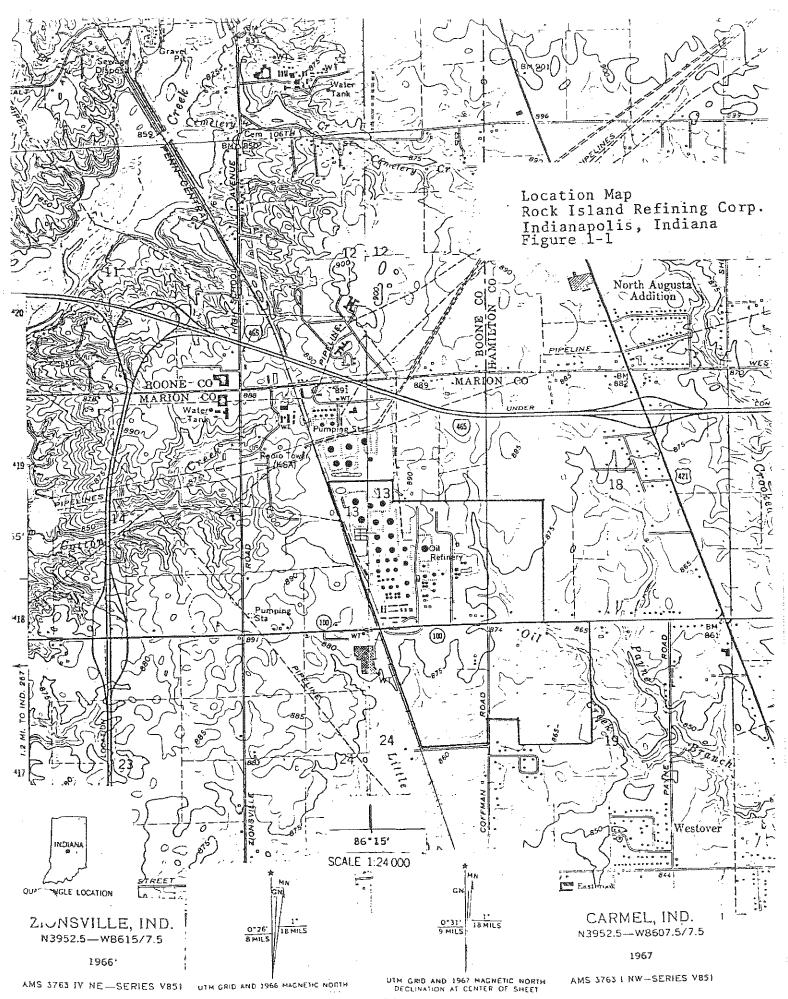
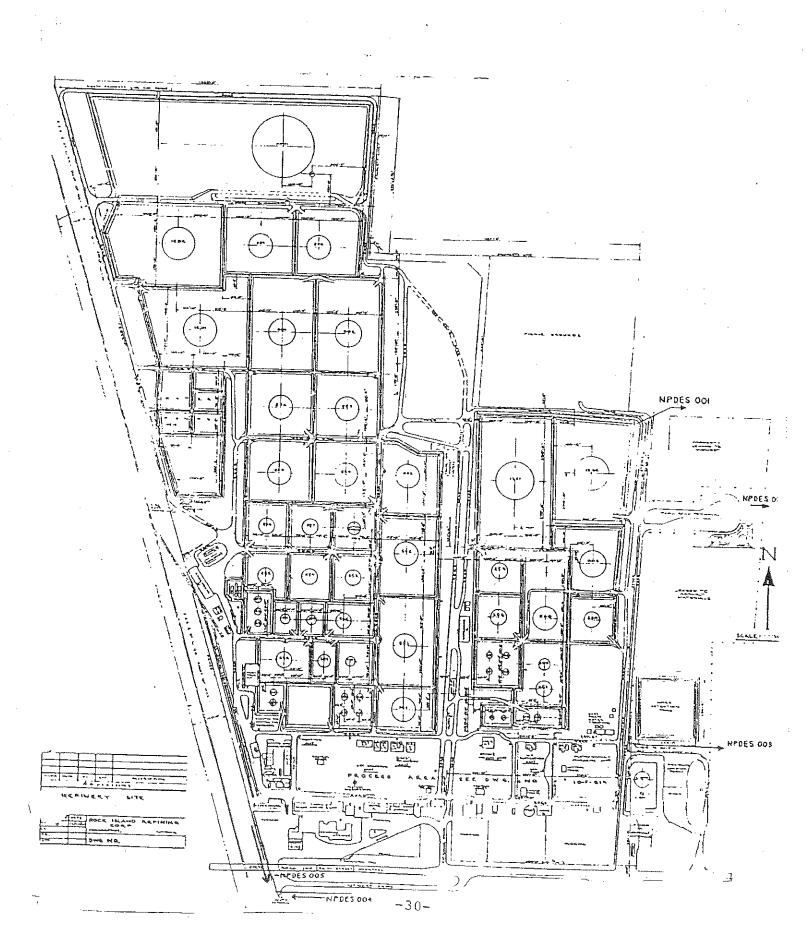
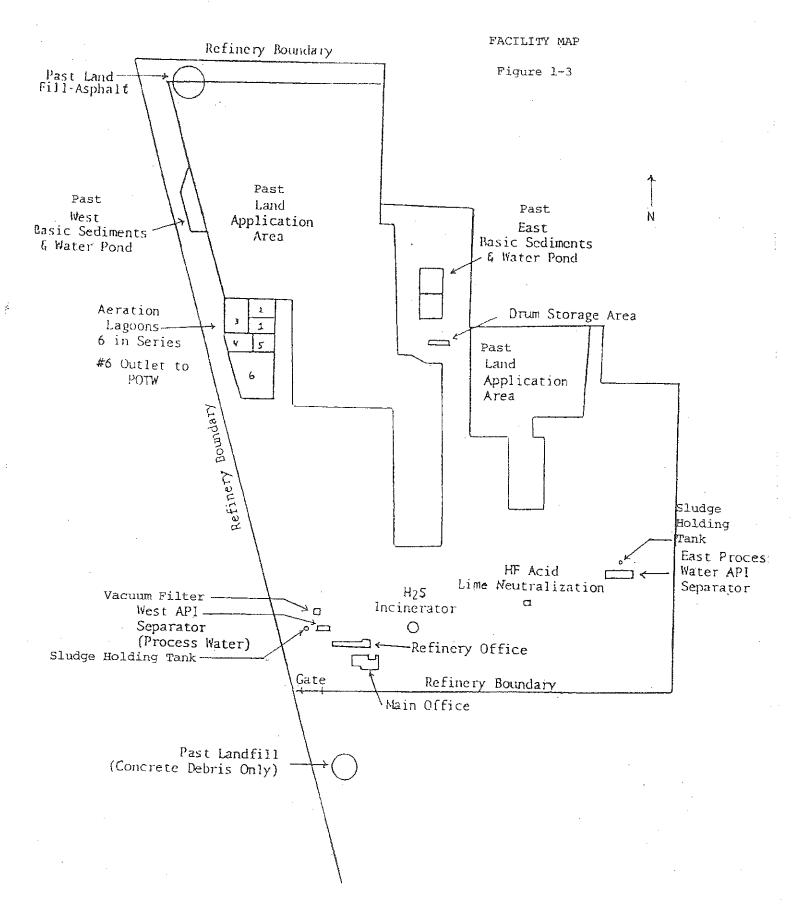


Fig. 1 - 2 Refinery Map





Ex. 9 Wells

APPROXIMATE WATER WELL LOCATION MAP

FIGURE 1-4

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FORM

U.S. ENVIRONMENTAL PROTECTION AGENCY HAZARDOUS WASTE PERMIT APPLICATION Consolidated Permits Program

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828	PROCESSES	f
FIE	PREMILE PAREN	(COMPANIEM)

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESSES (code "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

Line No. 3. TOl The vacuum filter is used to reduce the water content of materials.

IV. DESCRIPTION OF HAZARDOUS WASTES

- A. EPA HAZARDOUS WASTE NUMBER Enter the four—digit number from 40 CFR, Subpart D for each listed hazardous waste you will handle. If you handle hazardous wastes which are not listed in 40 CFR, Subpart D, enter the four—digit number(s) from 40 CFR, Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.
- B. ESTIMATED ANNUAL QUANTITY For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.
- C. UNIT OF MEASURE -- For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE COL	DE.	METRIC UNIT OF MEASURE	CODE
POUNDS		KILOGRAMS	95
TONS		METRIC TONS,	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:

For listed hazardous wasts: For each listed hazardous waste entered in column A select the code/s/ from the list of process codes contained in Item III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed hazardous wastes: For each characteristic or toxic contaminant entered in column A, select the code(s) from the list of process codes contained in Item III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER — Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

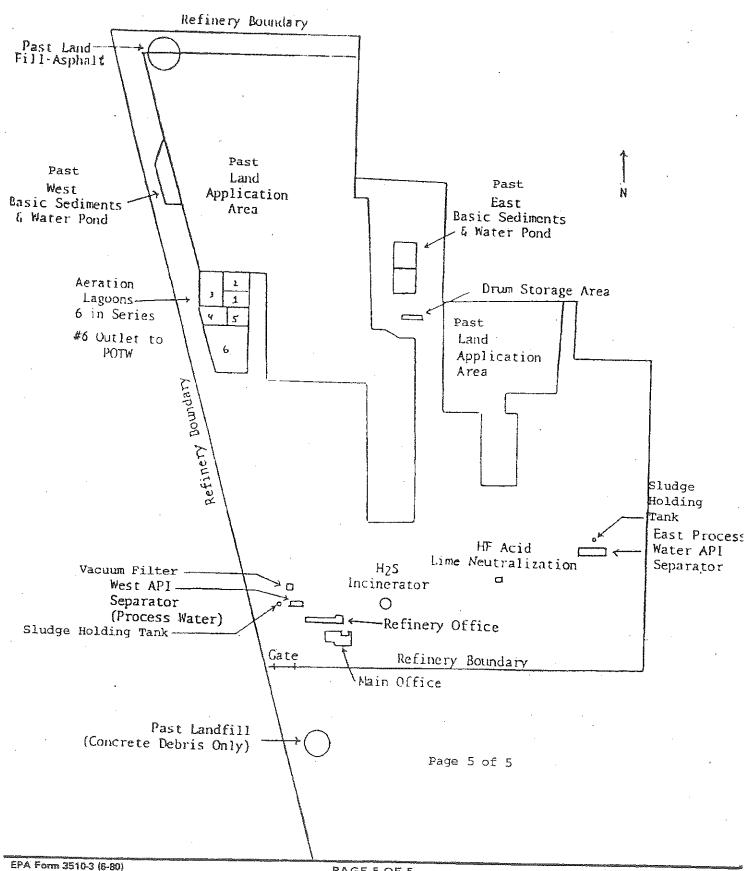
- Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B,C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
 In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter
- In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.
- 3. Repeat step 2 for each other EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING ITEM IV (shown in line numbers X-1, X-2, X-3, and X-4 below) — A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non—listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

i i			EPA				C. UNIT										D. PROCESSES			
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X-3	D	10	0	1	100		P		T	0	3	L) {	3 (0	· 1	Ī		1	
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EPA Form 3510-3 (6-80)

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IV. DESCRIPTION OF HAZARDOUS WASTES (con					
E. USE THIS SPACE TO LIST ADDITIONAL PROC	ESS CODES FROM ITEM D(I) ON PA	GE 3.		·	
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V EACH ITY DRAWING					
V. FACILITY DRAWING			- 201		
All existing facilities must include in the space provided on	page b a scale drawing of the facility (see insti	ructions for more a	etaii).		
VI. PHOTOGRAPHS					
All existing facilities must include photographs (aeria				sting storage,	- W. V.
treatment and disposal areas; and sites of future stor	age, treatment or disposal areas <i>(see ins</i> i	tructions for mor	e detail).	California de la composição de la compos	***************************************
FACILITY GEOGRAPHIC LOCATION					
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VIII. FACILITY OWNER					
A. If the facility owner is also the facility operator as I	isted in Section VIII on Form 1 "General In	formation" place a	n "X" in the	boy to the left	hne
skip to Section IX below.	Section 1997 Control of the Control	.0.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		SOX III III III	5110
B. If the facility owner is not the facility operator as li	sted in Section VIII on Form 1, complete the	tollowing items:	4000		
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IX. OWNER CERTIFICATION					
I certify under penalty of law that I have personally					
documents, and that based on my inquiry of those in	ndividuals immediately responsible for c	obtaining the info	rmation, f	believe that th	ne
submitted information is true, accurate, and completed including the possibility of fine and imprisonment.	te. I am aware that there are significant	penaities for sub	nitting fais	e information	
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A. NAME (print or type)	B. SIGNATURE	7.	. DATE SIG	NED	
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FINANCE X, OPERATOR CERTIFICATION					
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SECTION III

GENERAL INFORMATION REQUIREMENTS

Α.	General Description	
B.	Chemical and Physical Analyses	

C. Waste Analysis Plan

A. General Description.

Rock Island Refining Corporation owns and operates a petroleum refinery at 5000 West 86th Street, Indianapolis, Indiana. This refinery produces gasoline, kerosene (range oil or #1 fuel oil), distillate fuel oils, residual fuel oils and other products from crude petroleum and its fractionation products, through straight distillation of crude oil, redistillation of unfinished petroleum derivatives, cracking or other processes.

The refinery's wastes are first collected and treated in either the East API oil-water separator facility or the West API oil-water separator facility. The recovered oil is returned to the plant for processing. The settled material from the API separators is temporarily stored either in tanks or suction pits and then conveyed to a vacuum filter for dewatering. The cake from the vacuum filter (the filter cake) is transported and disposed offsite at a landfill in compliance with federal and state requirements.

B. Chemical and Physical Analyses.

A compilation of the chemical and physical analyses for solid and hazardous wastes generated, stored or treated at the refinery are presented in Appendix A.

C. Waste Analysis Plan

Hazardous wastes stored or treated at the refinery are listed in the revised Part A application (Section II, Paragraph B). Chemical and physical analyses that enable treatment and storage of these wastes in accordance with the requirements of 40 C.F.R., Part 264, are presented in Section III, Paragraph B.

Analyses are repeated as necessary to ensure accurate and up-to-date information and, at a minimum, are repeated when there is reason to believe that the process or operation generating the hazardous waste has changed.

The parameters to be tested are those listed in 40 C.F.R., Part 261, Appendix VII, which caused the wastes to be listed as hazardous, e.g.,

K049 for hexavalent chromium and lead;

K050 for hexavalent chromium; and

K051 for hexavalent chromium and lead.

All samples will be taken in accordance with the representative sampling methods of 40 C.F.R., Part 261,

Appendix I, and analyses will be conducted in accordance with the procedures of "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," 2nd Ed. (1982).

SECTION IV

SECURITY PROCEDURES AND EQUIPMENT

Measures have been instituted to prevent unknowing entry and to minimize the possibility for the unauthorized entry of persons or livestock onto the active portions of the refinery's treatment and storage facilities.

A 24-hour, 365-day-per-year surveillance is main-tained at the refinery by supervisory personnel.

The entire refinery site is enclosed by a 6-foot chain-linked fence topped with three strands of barbed wire. Other artificial and natural barriers (e.g., dikes and berms) surround the active portions of the refinery.

All entrances and exits are locked, except for the clockhouse gate which is monitored 24 hours a day.

Signs with legends indicating that only authorized personnel are allowed to enter are posted conspicuously at the refinery.

SECTION V

GENERAL INSPECTION SCHEDULE

This inspection schedule allows for the detection of malfunctions and deterioration, operator errors, and discharges which may be causing or may lead to release of hazardous waste constituents to the environment or threat to human health. Inspections are conducted frequently enough to identify problems in time to correct them before they harm human health or the environment.

The written schedule described below was developed and is maintained at the refinery for inspecting all monitoring equipment, safety and emergency equipment, security devices, and operating and structural equipment.

Facility Equipment	Problem Check	Inspection Frequency
West API	Level	l/wk
Lift Pumps	Inoperative/ deterioration	l/wk
Ford Pump	Inoperative/ deterioration	l/wk
Ford Pump Fuel Tk and Crank Case Oil	Level	1/wk

Facility Equipment	Problem Check	Inspection Frequency
35 Sump	Level	l/wk
Oliver Filter	Inoperative/ deterioration	l/wk
Slop oil pit	Level	l/wk
Slop oil Tks	Level/leaking valves/ T°/Inoperative/ Deterioration	1/wk
East API	Level	l/wk
Lift Pumps	Inoperative/ Deterioration	l/wk
Ford Pump	Inoperative/ Deterioration	l/wk
Ford Pump Fuel Tk and Crank Case Oil	Level	l/wk
Sump for P-8 Bldg.	Level	1/wk
Run Off Water Valves	Open/closed/ Deterioration	1/wk
Slop Oil Pit	Level	l/wk
Slop oil Tanks	Level/leaking valves/ T°/Inoperative/ Deterioration	l/wk

Any deterioration or malfunction of equipment or structures which the inspection reveals will be remedied on a schedule which ensures that the problem does not lead to an environmental or human health hazard. Remedial action will be taken immediately where a hazard is imminent or has already occurred.

A record of the inspection for each facility or piece of equipment is entered on an inspection log, which records are maintained for at least 3 years from the date of inspection. These records include (1) the date and time of the inspection, (2) the name of the inspector, (3) a notation of the observations made, and (4) the date and nature of any repairs or other remedial actions.

SECTION VI

PREPAREDNESS AND PREVENTION PLAN

- A. Design and Operation of Facility.
- B. Required Equipment.
- C. Testing and Maintenance of Equipment.
- D. Access to Communications or Alarm System.
- E. Required Aisle Space.
- F. Arrangements with Local Authorities.

A. Design and Operation of Facility

Storage and treatment facilities at the refinery are designed, constructed, maintained and operated to minimize the possibility of fire, explosion or any unplanned sudden or nonsudden release of hazardous waste or hazardous waste constituents to air, soil or surface water which could threaten human health or the environment. See Appendix B.

B. Required Equipment

A two-way radio communication system provides a means of immediate emergency instruction to refinery personnel.

Telephones, coupled with two-way radios, provide a means by which local police and fire departments and emergency response teams may be summoned to the refinery if emergency assistance is required. See Contingency Plan, Section VII, of this Part B application.

Portable fire extinguishers, foam, inert gas, dry chemicals, spill control equipment and decontamination equipment (e.g., showers, eye washes, etc.) are maintained at the refinery. See Contingency Plan, Section VII, of this Part B application.

Water at adequate volumes (e.g., fire water pond) and pressure to supply water hose streams and other fire equipment (e.g., fire truck) are maintained at the refinery. See Contingency Plan, Section VII, of this Part B application.

C. Testing and Maintenance of Equipment

All refinery communications and alarm systems, fire protection equipment, spill control equipment and decontamination equipment are tested and maintained to assure proper operation in time of emergency.

D. Access to Communications or Alarm System

Whenever hazardous waste is poured, mixed or otherwise handled at the refinery, all personnel involved in the operation have immediate access to emergency communication devices (telephones and/or two-way radios) with other refinery employees. More than one employee is always at the refinery when hazardous wastes are being handled.

E. Required Aisle Space

Aisle space is maintained at the refinery to allow the unobstructed movement of personnel, fire protection equipment, spill control equipment and decontamination equipment to any area of the refinery in an emergency.

F. Arrangements with Local Authorities

See Contingency Plan, Section VII, of this Part B application.

SECTION VII

CONTINGENCY PLAN

CONTINGENCY PLAN

This Contingency Plan is for the Rock Island Refining Corporation plant located at 5000 West 86th Street, Indianapolis, Indiana ("the Refinery").

The Plan is designed to minimize the possibility of hazards to human health or the environment from fires, explosions, or any unplanned sudden or nonsudden release. The provisions of this Plan will be carried out whenever there is a fire, explosion or release of hazardous waste that could threaten human health or the environment. The Refinery's Spill Prevention Control and Countermeasures ("SPCC") Plan, is incorporated as part of this Contingency Plan. Other materials that are part of this Plan are attached.

Arrangements have been made to familiarize police, fire departments, and emergency response teams with the layout of the Refinery, places where affected Refinery personnel would normally be working and entrances to roads inside the Refinery, associated hazards and possible evacuation routes. (The emergency response to fires is listed in separate section.) These arrangements are summarized below:

Ambulance

A. Pike Township EMT
B. Zionsville Volunteer

356-6366 873-3363

A written agreement exists with Pike Township Fire Department regarding Emergency Medical Technician (FMT) service. A verbal arrangement has also been made with the Zionsville Emergency Ambulance. Written protocol among fire departments automatically dispatches paramedics for specific medical emergencies.

Fire Departments

A. Pike Township - B. Zionsville

356-6366 873-3344

Verbal and/or written arrangements have been made with Pike Township and Zionsville Fire Departments. When called, the first unit in and Command Staff respond to the Clockhouse gate. The men and equipment are then staged, ready to be used under the direction of the Refinery's designated Emergency Coordinator.

Hospitals

A. St. Vincent Hospital (EMERGENCY HEALTH CARE) 871-2121 2001 W. 86th St. (2 1/2 miles E. of Refinery)

A verbal arrangement exists with the hospital. The nature of any emergency is phoned to the emergency room while the patient is in transit.

Industrial Health Clinics (NON-EMERGENCY HEALTH CARE)

A. Methodist Health Care Centers 1950 W. 86th St. (2 miles E. of Refinery)

872-4775

A formal contract regarding non-emergency health care has been made with Methodist Health Care Centers.

> B. Indianapolis Industrial Clinic 320 N. Meridian St.

635-4415

Police

A. Marion County Sheriff

633-5151

Verbal and written agreements exist with the Marion County Sheriff Department. Calls are handled on a case-by-case basis.

B. Indiana State Police

899-8577

897-6220

C. Nora Security

259-1166

A formal contract with Nora Security provides additional traffic control, plant security and scene control during a contingency.

State Response

Indiana Stream Pollution Control Board (ISPCB) 24 Hr. Phone Number Mr. Phillip Powers

633-0144

In the event of an oil and/or hazardous material spill, Refinery personnel will immediately notify the appropriate state authorities.

Local Response

A. Marion County Health & Hospital Corporation
Telephone number (during normal working
hours)
Telephone number (during off hours contact
Mr. Bob Morse)
633-3691
356-6648

B. Other number

253-9624

An understanding exists that Marion County Health and Hospital personnel will be notified of any emergency relating to nearby streams. While no night number is available, the home numbers of personnel are on record.

Contractor

A verbal agreement exists such that the spill control contractors are on call as part of a pollution control network. (Refer to SPCC Plan)

Sanitary Sewer

Indianapolis Department of Public Works

8-5 week days 633-5475 off hours 353-2111

The Refinery's permit from the Department of Public Works establishes the appropriate actions to be taken if an emergency arises from a discharge to the Indianapolis POTW.

Air Pollution

24 hr. -- during week

633-5565

A written agreement with the Indianapolis Air Pollution Control Board is on file concerning an emergency response involving any air pollution discharge.

S. My Switzer

Bud Phillips

11.

The following persons (in the order in which they will assume responsibility as alternates) are qualified to act as Emergency Coordinator in the case of any unplanned sudden or nonsudden release of hazardous waste, or oil spill.

Name
Bill Laque (Primary
Emergency Coordinator)

2. Walt Palmer

3. Jim Crisler

4. Bernard Smith

5. Ron Peters

6. Russ Bunton (Pump Hs,
Idg Rk, Lab)

7. Bennie Tyler (Area 1)

8. Duke Jamison (Area 2)

9. Curt Sebastian (Area 3)

10. Nate McDonald (Area 4)

The emergency numbers for the local police authorities, fire authorities, hospitals and state and local response teams are set forth in pages 2-4 of this Plan.

Portable fire extinguishers, pumps, respirators and other emergency equipment are maintained at the Refinery. (The Refinery follows the recommendations of its insuring companies who regularly inspect the Refinery.) A list of the available emergency equipment/materials is presented in the SPCC Plan. Water is available at adequate volumes to supply water hose streams and/or foam producing equipment, if required.

Additional decontamination facilities, including showers, are found in the first aid room and the Refinery's office basement. The supervisors at the Refinery are equipped with portable two-way radios and can give prompt notice of an emergency situation as well as receiving immediate emergency instructions. Telephones (operable during power outage) are also available for summoning emergency assistance should such a need arise. There is unobstructed access to allow the movement of personnel, fire protection equipment, spill control equipment and decontamination equipment to any area of the Refinery in an emergency. All facility communications or alarm systems, fire protection equipment, spill control equipment, and decontamination equipment, where required, is tested and maintained routinely to assure its proper operation in time of emergency.

The procedures to be followed during a fire or release of hazardous material, including evacuation, where necessary, are set forth in the separate section. This evacuation plan describes the signals to be used to begin the evacuation as well as the evacuation routes. The designated Emergency Coordinator, in conjunction with the Safety Director, will specify an alternate route where the primary route might be blocked by the release of hazardous wastes or fires.

The designated Emergency Coordinator, pursuant to 40 C.F.R. Sec. 265.56, should immediately take the following action where there is an imminent or actual emergency situation:

- 1. Notify facility personnel of the emergency situation by activating alarms and/or using available communication systems.
- 2. Notify appropriate State or local authorities if help is needed.

Whenever there is a release, fire, or explosion, the Emergency Coordinator should immediately:

- 1. Identify the character, exact source, amount, and the extent of any released materials. (This may be done by observation or review of Refinery records or manifests and, if necessary, by chemical analysis.)
 - 2. Assess possible hazards to human health or the environment.

If the Emergency Coordinator determines that a release, fire, or explosion could threaten human health, or the environment, outside the facility, the following procedures should be immediately implemented:

- 1. Notify appropriate local authorities if an assessment indicates that evacuation may be advisable.
- 2. Notify the National Response Center (using their 24-hour toll free number, 800/424-8802). Any such notification should report the following:
 - (1) Name and telephone number of reporter;
 - (2) Name and address of the Refinery;

.....

- (3) Time and type of incident (e.g., release, fire);
- (4) Name and quantity of material involved (to the extent known);
- (5) The extent of injuries, if any; and
- (6) The possible hazards to human health, or the environment, outside the facility.

During an emergency, all reasonable measures necessary should be taken to ensure that fires, explosions and releases do not occur, recur, or spread to other hazardous waste at the facility.

If the facility stops operations in response to a fire, explosion or release, the Emergency Coordinator should monitor for leaks, pressure buildup, gas generation, or ruptures in valves, pipes, or other equipment, wherever this is appropriate.

The Emergency Coordinator should provide immediately for treating, storing, or disposing of recovered waste, contaminated soil or surface water, or any other material that results from a release, fire, or explosion at the Refinery.

The Emergency Coordinator should ensure that, in the affected area of the Refinery:

- 1. No waste that may be incompatible with the released material is treated, stored, or disposed of until cleanup procedures are completed; and
- 2. All emergency equipment listed in the Contingency Plan is cleaned and fit for its intended use before operations are resumed. The Emergency Coordinator should notify the Region V, U.S. EPA Administrator, and appropriate State and local authorities, that the facility is in compliance with the requirements set out below before operations are resumed in the affected area.

The Emergency Coordinator should note in the operating record the time, date, and details of any incident that requires implementing the Contingency Plan. Within 15 days after the incident, a Written report on the incident should be submitted to the Region V, U.S. EPA Administrator, which includes:

- (1) Name, address, and telephone number for the Refinery:
- (2) Date, time, and type of incident (e.g. fire, explosion);
- (3) Name and quantity of material involved;
- (4) The extent of injuries, if any;
- (5) An assessment of actual or potential hazards to human health or the environment, where this is applicable; and

(6) Estimated quantity and disposition of recovered material that resulted from the incident.

A copy of this Contingency Plan is maintained at the Refinery. In addition, a copy of this Plan has been submitted to local police and fire departments, hospitals, and State and local emergency response teams that may be called upon to provide emergency services. This Plan will be timely reviewed and amended if necessary.

ROCK ISLAND REFINING CORPORATION INDIANAPOLIS, INDIANA

SPILL PREVENTION CONTROL AND COUNTERMEASURES PLAN

(SPCC PLAN)

Updated September 1980 August 1982 May 1983 June 1984

OIL POLIUTION PREVENTION General Information

Name and Location:

Name:

Rock Island Refining Corporation

Phone: 317-872-3200

Location:

5000 West 86th Street

Indianapolis, Indiana 46268

Name, address and phone number of area manager:

The state of the s

Name:

Micheal R. Renfrew, Plant Mgr. Phone: 317-291-4214

7720 Eagle Valley Pass

State: Indiana

Indianapolis, Indiana

Zip: 46224

Type Facility:

Crude Oil Refinery with Loading Rack and

Tank Farm

Refinery Capacity:

44,000 BPSD

Loading Rack:

Yes

Tank Farm:

1.9 MM Bbls.

Name and telephone number of person responsible for oil spill prevention at facility:

Name:

W. E. Laque

Phone: 317-298-7494

Certification

I hereby certify and attest that I am familiar with the facility and the information contained in this plan and that to the best of my knowledge and belief such information is true, complete and accurate, and this plan has been prepared in accordance with good engineering practices.

Name of Registered Engineer

Date: 11 June 84

Registration No. 17287

Spill Record

- 1. This facility, over the past 12 months has not had a reportable spill.
- 2. Description of any reportable spills are given in the supplementary material, including corrective action taken for preventing recurrence.

Prediction of Potential Spills

1. Possible spill sources:

Source	Type of failure	(bbls.) Maximum Volume
Tank overflow	Overflow	1,000
Tank rupture	Rupture	400,000
Line leak	Leak	100
Process vessel	cupture Rupture	200
Loading rack	Overflow	200
Trucks	Road Accidents	200

Spill Prevention Plan Checklist

1. Secondary containment or diversionary structures are used for possible spill sources:

Source	Type of Containment or Diversionary Structure
Tank	Dikes
Process Area	Curbing and drains to A.P.I. Separator
Loading Rack	Catch Basins and drains to A.P.I. Separator

Facility Drainage

1. Process Area:

Any spill occurring within the process area flows through the unit drains to an A.P.I. Separator, where oil is separated from water by gravity, with oil pumped to slop tank, and water treated before discharge to holding basin and thence to City Sanitary Sewer.

2. Storage Tanks:

- A. Tank material and construction complies with conditions of storage and material stored.
- B. Tanks are separated by dikes.
- C. Diked volume is greater than tank volume.
- D. All tanks are visually inspected on a periodic basis.
- E. Tanks are engineered with one or more of the following fail safe devices:
 - (1) Adequate tank capacity to prevent overfill.
 - (2) Adequate vacuum protection.
 - (3) A radio system is in use in the refinery where personnel and others are in direct communication to notify parties concerned in case of spill emergency.
 - (4) Tanks are gauged automatically with periodic manual verification.

3. Storage tank area drainage:

- A. Drains of secondary containment are closed when rainwater is drained.
- B. Drainage from secondary containment is conducted under surveillance of authorized person. Name and title of authorized person: Nate McDonald, Area 4 Supervisor.
- C. Other: Any oily water removed from secondary containment flows through an oily sewer line to an A.P.I. Separator for separation, treatment, and discharge to aeration ponds. Ponds are capable of holding approximately seven (7) days water discharge.
- D. Tank dikes are drained under controlled conditions after rain has ceased.

4. Loading Rack Area:

- A. Loading rack drainage flows into catch basin and then to API separator.
- B. In order for the loading to occur, a ground has to be manually attached to the truck. In the event of vehicle departure, the ground is broken and the loading system shuts down.
- C. Prior to and after filling all tank truck outlets are examined for leakage.

PERSONNEL, TRAINING AND SPILL PREVENTION PROCEDURES

1. Personnel are properly instructed in the following:

- A. Operation and maintenance of equipment to prevent oil discharge.
- B. Applicable pollution control laws, rules and regulations.
- 2. Spill prevention briefings for the operating personnel are conducted on a periodic basis.

Action Plan (suggested plan outline to be used if spill should reach water)

- A. Contain spill at point where no further contamination is apparent by:
 - 1. Dam, if feasible
 - 2. Absorbent material

EMERGENCY PHONE NUMBERS

1. National Response Center

1-800-424-8802

2. Action Center:

Name: U.S. E.P.A. District Office Street: 5

536 S. Clark St.

City: Chicago

State:

Illinois 60605

Telephone: (312)353-2318 (24 hr. number)

- 3. Communication (telephone numbers)
 - A. Federal EPA

(312) 353-2318

B. State EPA

Refer to Indiana Stream Pollution Board

C. Indiana Stream Pollution Board

24 hr. no. (633-0144

633-4360 633-0684

D. Pike Township Fire Department

356-6366 Emergency 299-0424 Business

- 4. Immediate Work Force:
 - A. List names and telephone numbers of your own people who would be immediately available on a 24-hour basis.

(1) ALL EMPLOYEES AT HOME AND NOT ON DUTY

- B. List your own equipment, such as dozers, trucks, etc. that would be immediately available on a 24-hour basis.
 - (1) One (1) Tractor with back hoe and front scoop.
 - (2) One (1) 1-Ton Dump Truck
 - (3) Six (6) 1/2 and 3/4 Ton Pick-up Trucks
- C. List men and equipment that a sub-contractor could make immediately available on a 24-hour basis, also list the telephone numbers of the people to call.
 - (1) Spill Recovery of Indiana P. O. Box 34337 Indianapolis, IN 46234 (317) 291-3937 (24-hr. number) Mr. John Fedder Mr. John Simms
 - (2) Ace Oil Service 876 Otter Creek Road Oregon, OH 43616 (419) 726-1521 Mr. Dennis Siefky
 - (3) Ferguson Harbor Service P.O. Box 8153 Nashville, TN 37207 (615) 227-3395 Mr. Owen W. Ferguson
 - (4) Coghill Septic Service 6095 S. 800-E Zionsville, IN 46077 (317) 873-2552 John Coghill
 - (5) Marko Excavating Company, Inc. P. O. Box 1 Zionsville, IN 46077 (317) 873-2552 Bob Lear
 - Two (2) Dozers 3 Front End Loaders
 One (1) Grader 2 Backhoes
 Three (3) Dump Trucks 2 3/4 Ton Pick-up Trucks
 Available Manpower Six (6) Operators and/or Drivers

(6) Baker, McHenry & Welch, Inc. 1750 West Michigan Street Indianapolis, IN

(317) 635-1431

Person to Contact: Mr. Jack Paul

Bus. Phone (317) 635-1431 Home Phone (317) 759-7838

One (1) Backhoe

One (1) Bobcat

One (1) Dump Truck

One (1) Gallion Crane

Manpower Available: Four (4) Carpenters

Six (6) Laborers

All the above equipped with necessary tools and equipments.

DISCUSSION OF CONFORMANCE WITH APPLICABLE GUIDELINES

- 1. Containment structures or equipment used in Rock Island's tank farm and process area to prevent discharged oil from reaching navigable waters are in the form of:
 - (a) Dikes or retaining walls sufficiently impervious to contain spilled oil.
 - (b) Curbs

 - (c) Culverting and/or sewers(d) Spill diversion pond or retention ponds
 - (e) Sorbent materials, in this case, pads
 - (f) Sorbent materials, chemically treated such as, 3M oil sorbent type 126 sweep
 - (q) Bennett floating boom
- 2. Drainage from diked storage areas is restrained by valves to prevent spill. This drainage is handled by controlled release through water treatment system.

It is proposed to replace or clean all oil residue from diked areas and construct a suitable drainage system so as to empty run-off to Little Eagle Creek under controlled conditions, supervised by a competent individual. Storm water will be inspected as to quality before release. In some cases lift pumps with be required as the local topography does not completely lend itself to gravity drainage.

Valves are presently in use to restrict the flow of storm water into the API Separator for treating. A different configuration is planned to direct the water to the respective NPDES discharge points, being released under supervision via manually operated valves.

Plant drainage from undiked areas will be directed to a retention pond on the east side of the plant and to the creek on the west side. Curbed areas will be provided in spots where spills are not likely, with the water from all sources in the curbed areas leading to the API separator and thence through the treatment facilities.

STORAGE TANKS

All storage tanks containing oil are enclosed in dikes of sufficient height to contain greater than 100% of the storage capacity. Dikes have been in service several years and have proven capability to retain oil. An oil spill from any of the tanks would be contained in the dikes and removed or cleaned up by same means. Valves on tank dike drains would normally be closed so as to provide this means of safety.

All drainage complies with NPDES water quality standards.

Adequate records are kept of quality and quantity of drainage from open tank dikes and are compiled under the supervision of competent management personnel for all NPDES streams.

Above ground tanks have and will be inspected periodically to insure safe use by means of either a hydrostatic test, visual, or electronic devices especially constructed for this application. The tank farm is constantly being traveled by members of the pumping department and are instructed to report any leaks immediately. Leaks are also detected easily by discoloration of paint. Comparison records will be kept on various tanks as they are periodically opened and cleaned for change of service or for inspection.

Rock Island does not have any major tanks heated internally with steam coils. Heating is accomplished utilizing external sources.

Rock Island has installed remote gauging equipment so that farm transfers can be monitored, and to a degree controlled. This system consists of devices to indicate high levels and/or any abnormalities by activating audible and visual systems.

The plant at present has a radio communication network which includes the pumpers and others engaged in tank farm assignments.

A fast response system is in the developmental stage and will ultimately enable personnel to read remotely tank levels and at the same time be recorded in a digital computer for retrieval.

The liquid level devices described will be tested periodically to insure proper operation.

The refinery is manned 24 hours per day by personnel engaged in tank farm activites, and who observe disposal facilities to determine if spill events are likely to occur.

Oil leaks from storage tanks which result in oil in diked areas are corrected and recovered for processing.

Mobile tanks used in the refinery are of small capacity and should pose no threat to oil contamination of NPDES discharge points.

PUMPING FACILITIES

All new underground piping installation will have protective wrapping and coating to prevent corrosion. At this time all buried lines uncovered for any reason are being placed overhead, if at all possible.

Pipe lines that are abandoned are drained and/or capped or blind-flanged at each terminal point and suitable identification furnished.

Pipe supports are constructed for maximum support and to allow for minimum abrasion and corrosion. Allowance for expansion and contraction are also provided.

This facility does not load railroad tank cars. At times light gases under pressure (butanes) are received but pose no threat as they are in vapor state under ambient temperatures.

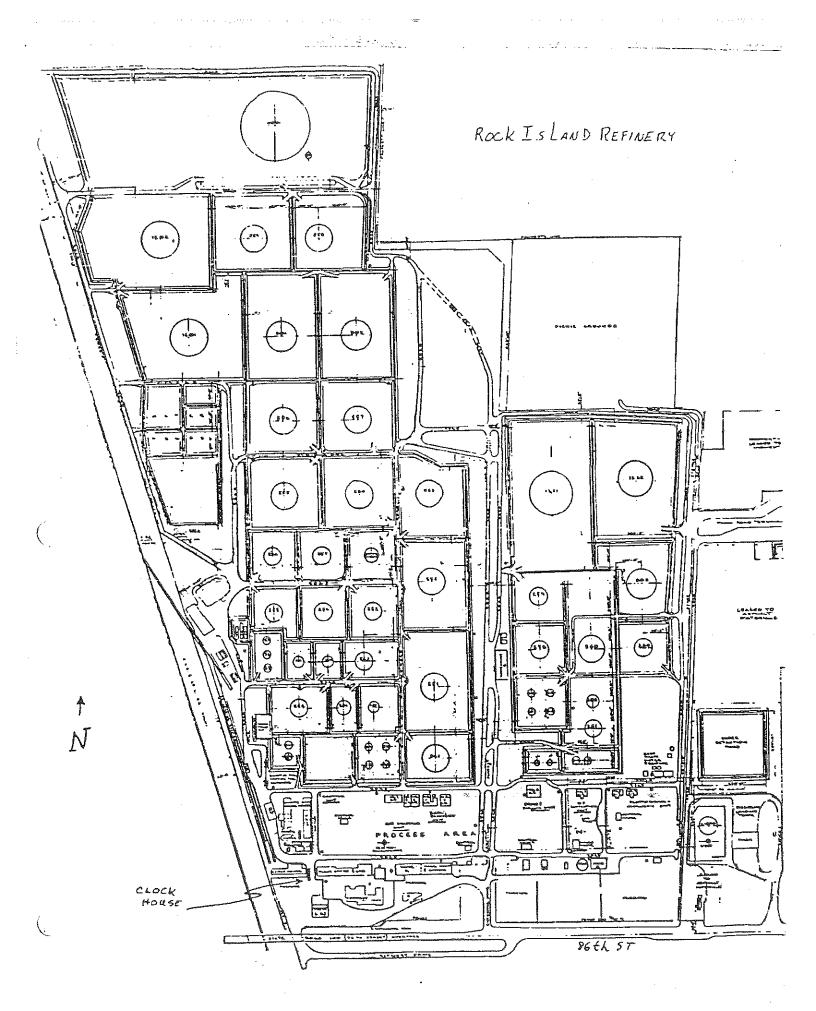
TANK TRUCK LOADING

Tank truck loading facilities are revamped to conform with Department of Transportation requirements and also City of Indianapolis Transportation Control Plan. The project is completed, as is the vapor recovery system.

The tank truck rack is constructed with a drainage and catchment basin facility to preclude the loss of oil in case of overfilling of trucks.

Prior to departure of filled trucks, inspection is made of all drains to prevent leakage of liquid product.

Tank trucks, loading heavy fuels are not equipped with various devices described; loading is performed under plant supervision, minimizing possibility of overfilling. In case of spill, this oil solidifies and is manually moved out as solid waste.



FIRE EMERGENCY CALL OUT PROCEDURE

In case of fire at night, on weekends, or on holidays, when so requested by the Shift Supervisor, call the following employees:

1. Russ Bunton/Don Scott

2. Bennie Tyler

3. Curt Sebastian

4. Duke Jamison

5. Walt Palmer

6. Ron Peters

7. Jack White

8. Danny Luttrell

9. Carl Shockley

10. Bob Wilson

11. George Schuetz

12. Bud Phillips

13. Max Good

14. Bob Anderson

15. Jim Crisler

16. Bill Laque

17. Bernard Smith

(If Pumphouse, Tank Farm or Loading Rack)

EX.6

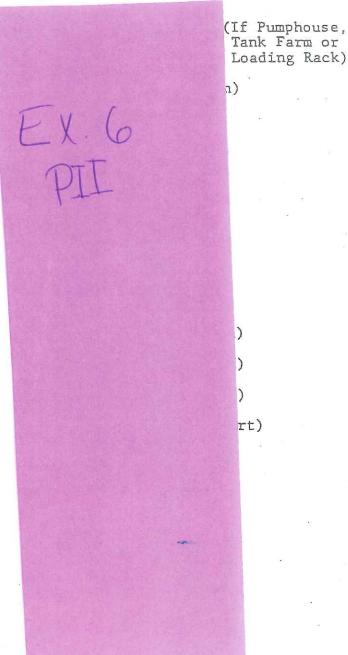
PII

FIRE

EMERGENCY CALL-OUT PROCEDURE

In case of fire at night, on weekends, or on holidays, when so requested by the Shift Supervisor, call the following employees:

- 1. RUSS BUNTON/DON SCOTT
- 1. BENNIE TYLER Area 1
- 1. DUKE JAMISON Area 2
- 1. CURT SEBASTIAN Area 3
- 2. WALT PALMER
 - RON PETERS
 - 4. JIM CRISLER
 - 5. MIKE RENFREW
 - 6. JACK WHITE
 - 7. DANNY LUTTRELL
 - 8. CARL SHOCKLEY
 - 9. BOB WILSON
- 10. GEORGE SCHUETZ
- 11. MORRIS BUTCHER
- 12. BUD PHILLIPS
- 13. MAX GOOD
- 14. BOB ANDERSON
- 15. BOBBY CURRY
- 16. BILL LAQUE
- 17. FRED KRAMPE
- 18. BERNARD SMITH



ROCK ISLAND REFINING CORP.

CLOCKHOUSE EMERGENCY PHONE LISTINGS

Blank - Test #

Bernard Smith

Pike Township

Jim Crisler

George Schuetz

Sheriff

Curt Sebastian

Carl Shockley

State Police

Bennie Tyler

Bob Wilson

Nora Security

Russ Bunton

Morris Butcher

St. Vincent E.R.

Don Scott

Bud Phillips

Spill Recovery

Walt Palmer

Bobby Curry

Power & Light

Ron Peters

Fred Krampe

State Board of Health

Danny Luttrell

Max Good

Mike Renfrew

Jack White

Bob Anderson

Bill Laque

Duke Jamison

EVACUATION

Case 1. Week day, normal working hours

When a fire alarm sounds:

All Rock Island Personnel are expected to respond to the fire except those necessary to continue safe operation of other units not affected by the fire.

All contractors have been instructed to leave the premises:

- 1. Those in the west area via the clockhouse gate and <u>assemble</u> beneath bridge.
- 2. Those in east area via the east gate and assemble in east parking lot.

Case 2. Other than week day normal working hours

When a fire alarm sounds:

All Rock Island Personnel are expected to respond to the fire except those necessary to continue safe operation of the other units.

1/12/84

AGREEMENT FOR THE STAGING OF MUNICIPAL FIRE AND EMERGENCY MEDICAL UNITS DURING AN IN-PLANT EMERGENCY

undining kababatan sa

Municipal Fire and Emergency Medical Services will respond only to a call placed by authorized Rock Island Refining Corporation personnel.

FIRE OR MAJOR EMERGENCY

When Municipal Fire Department assistance is required, Pike Township Fire Department will respond initially with 3 engines, an ambulance and a rescue squad.

Incoming fire equipment will be staged at Pike Township Fire Station #3 (Station 13) at 4003 W. 86th Street. The first responding unit will go directly to the Rock Island clockhouse. The Municipal Fire Officer in charge will respond to the clockhouse for initial information necessary for tactical deployment under Rock Island direction. When outside help is requested, the watchman must be notified so that he/she may be prepared to meet the incoming Fire Chief.

Municipal fire units will proceed into the plant only after an escort has been assigned to them. This applies to all outside units, regardless of final destination.

Variations in staging areas or command post locations may be implemented only when necessary and only under informed consent of both the Municipal Fire Officer in charge and the Rock Island personnel directing the fireground.

Additional fire and emergency medical units will be summoned through the Municipal Fire Officer in Charge as determined by the needs and requests of Rock Island fireground personnel.

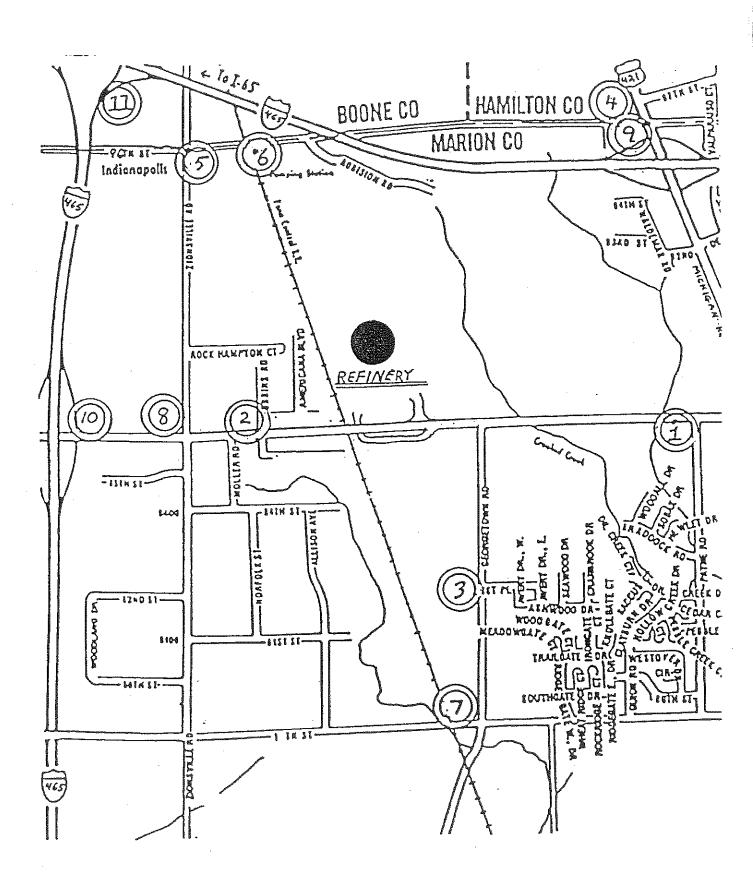
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EMERGENCY MEDICAL SERVICE

When Emergency Medical Service is requested from Pike Twp. Fire Department, an inital response of one ambulance may be expected. During those times when the nearest ambulance is unavailable, an engine and an ambulance may be expected.

Responding units will arrive at the main gate. The Watchman must be notified of requests for outside Emergency Medical Service so that the main gate area may be maintained for incoming emergency units. Emergency Medical units must have a Rock Island escort before entering the plant. Also, Emergency Medical personnel should be wearing hard hats before leaving their vehicles within the plant (inside main gate).

When a situation exists that requires advanced emergency care, a paramedic unit from Washington Township will also respond. In these cases, the watchman should be aware of a third responding unit and an additional escort must be available.



AGREEMENT FOR THE STAGING AND DEPLOYMENT OF LAW ENFORCEMENT & SECUPITY PERSONNEL DURING AN IN-PLANT EMERGENCY

FIRE OR MAJOR EMERGENCY

Law enforcement personnel will respond to a call placed by authorized Rock Island Refining Corporation personnel. Nora Security will respond to a call placed either by authorized Rock Island Refining Corporation personnel or by the Marion Co. Sheriff's Department for Rock Island Refining Corporation. Routinely, Nora Security notification will be made through the Sheriff's Department.

One unit each from: The Indiana State Police, The Marion County Sheriff's Department and Nora Security will respond to the clockhouse parking lot to establish Command Post Procedures. The clockhouse parking lot will be the initial Command Post Area, unless otherwise notified by Rock Island or Pike Township Fire Department personnel.

Nora Security will assign its remaining three (3) units to establish the Preliminary Perimeter (see below). These Nora units will be relieved by State and County units as soon as practical. Upon relief, Nora units will either be reassigned to Plant Security or other duties as directed by the Command Post.

Marion County Sheriff's Department units will relieve Nora Security at the Preliminary Perimeter. The Sheriff's Department Command Unit and Dispatch Center will coordinate the establishment of the main perimeter and assign units to do so based on the nature of the problem.

The primary function for Indiana State Police units will be control of interstate traffic, or if warranted, interstate closure (I-465). State units may also be helpful in assisting Marion County units in the establishment of a Main Perimeter.

PRELIMINARY PERIMETER LOCATIONS:

- 1. 86th Street and Vincennes Avenue (Fortune Park)
 Stop Westbound traffic
- 2. 86th Street and Robbins Road Stop Eastbound traffic
- 3. 81st Street and Georgetown Road Stop Northbound traffic

MAIN PERIMETER LOCATIONS:

- 96th Street and Michigan Road Stop Westbound traffic
- 5. 96th Street and Zionsville Road

Stop Eastbound traffic

- 96th Street and Conrail R.R.
 Stop Southbound access on R.R. right-of-way
- 7. 79th Street and Conrail R.R. Stop Northbound access on R.R. right-of-way
- 8. 86th Street and Zionsville Rd. Stop Eastbound traffic
- 9. 86th Street and Payne Road Stop Westbound traffic
- 10. I-465 and Michigan Road (Or I-465 & Meridian)
 Stop Westbound I-465 and on ramp to Westbound I-465
- 11. I-465 and 86th Street
 Stop Northbound I-465 and on ramp to Northbound I-465
- 12. I-465 to I-65 Boone County Stop Eastbound I-465 traffic

All responding units which have not been given an assignment, should report to the Staging Area at Pike Township Fire Station 13, 4003 West 86th Street. Units awaiting assignment or reassignment, should not come onto the Refinery premises. If conditions warrant, the staging area will be moved to a more tenable location as determined by Command Post personnel. (See map on the following page)

EMERGENCY RESPONSE TEAM

The duties of the emergency response team have been modified slightly to provide back-up for those people assigned to start fire pumps. There are now two people responsible for making sure the fire pumps are started and one responsible for checking the pump periodically. Shift employees assigned to the emergency response team are as follows:

AREA 1 LEAD OPERATOR

Go to scene and help set up and operate fire truck.

AREA 2 LEAD OPERATOR

Get fire truck to the scene.

*AREA 3 LEAD OPERATOR

Make sure east end fire pump(s) have been put on, then go to the scene and help set up and operate fire truck.

*APEA 1 NO. 2 OPERATOR

Make sure that spray pond fire pump(s) have been put on, then proceed to the scene and help as directed. If the fire is at the Pumphouse, Tank Farm, or Loading Rack, check fire pump operation periodically.

AREA 1 NO. 3 OPERATOR

Proceed to fire and help as directed.

AREA 3 NO. 3 OPERATOR

Get fire truck to the fire and help as directed.

LABORATORY NO. 3 OPERATOR

Get fire truck to the fire and help as directed.

APEA 1 HELPER

Proceed to fire and help as directed.

AREA 2 HELPER

Proceed to fire and help as directed.

AREA 3 NO. 4 OPERATOR

eart fire pump at East Retention Pond. Check operation of pump periodically.

*TRANSFER DEPARTMENT NO. 1 OPERATOR A

Start fire pump(s) at spray pond as per procedure. Periodically check pumps and provide operations assistance for controlling emergency as needed.

*TRANSFER DEPARTMENT NO. 1 OPERATOR B

Proceed to emergency and help as directed

*TRANSFER DEPARTMENT NO. 4 OPERATOR

Shut down any off-loading operations and proceed to the emergency and help as directed.

*Denotes modification to procedures.

EMERGENCY DUTIES FOR THOSE NOT ON SHIFT EMERGENCY RESPONSE TEAM - OPERATIONS

With the adoption of the new Area Concept and the revision of the emergency response team, several employees per shift will not respond to the emergency. Even though these employees will not respond, they will have assigned responsibilities as a part of the overall team.

· Area 1

No. 1 Operator-FCC

No. 1 Operator-Gas Plant

No. 4 Operator

Control processes and provide operational assistance for control of the emergency as outlined in emergency procedures or as directed. (No. 1 Operators to radio location of emergency.)

Area 2

No. 1 Operator-Crude

No. 1 Operator-Alky

No. 2 Operator-SRU

No. 4 Operator

Control processes and provide operational assistance for control of the emergency as outlined in emergency procedures or as directed.

Area 3

No. 1 Operator-H/P

No. 1 Operator-ROSE

No. 4 Operator-(after starting fire pumps)

Control processes and provide operational assistance for control of the emergency as outlined in emergency procedures or as directed. No. 4 Operator to periodically check fire pumps.

Area 4

No. 1 Operator

No. 2 Operator-(after starting fire pumps 2100-0500) Control processes and provide operational assistance for control of the emergency as outlined in emergency procedures or as directed. The Operator remaining at Pumphouse is to periodically check fire pumps.

Watchman

Makes all necessary phone calls, meets incoming emergency units, if necessary, keeps all unnecessary personnel outside of plant, provides any other assistance as directed.

Although the above employees will not be responding throughout the plant to fight fire, they will still be responsible for fighting fires in their work area which are still in the incipient stage. (Which can be controlled with portable extinguishers and small hose lines.)

January 19, 1984

NEIGHBORING FACILITIES NOTIFICATION

If it becomes necessary to notify neighboring facilities of an emergency at Rock Island, the following locations can be contacted at these respective phone numbers.

Panha	ചെല്ല	Fast	tem

873-2410 (24 hours)

Mr. Sutton, Area Superintendent A. E. Huser, Plant Supervisor R. D. Markley, Field Supervisor

Shell Pipe Line Corporation

Offices
Zionsville Plant
Wood River Control Center (618)

872-7440 (421) 872-4110 (96th Str.) 254-7467 (24 hours)

Crooked Creek Gun Club

872-9118

Rock Island Park

R.I. Extension #336

Midwest Oil Transit

872-5580

Park Road Terminal

R.I. Extension #327 872-9003

Asphalt Materials

872-6010

Residual Oil Terminal

R.I. Extension #326

872-9026

Wake Up Oil Company

872-5505

Golden Imperial

875-8500

EMERGENCY NUMBER

AMBULANCE	Pike Township	356-6366	
	Zionsville	873-3363	
FIRE DEPTS.	Pike & Washington Twps.	356-6366	
	Zionsville Fire Dept.	873-3344	•
POLICE & SECURITY DEPTS.	Marion County Sheriff	633-5151	
	Indiana State Police	899-8577	
•	Nora Security	259-1166	
CLINICS	•	,	
CLINICS	Methodist Health Care Clinic 1950 West 86th St.	872 – 4775	
	Methodist Health Care Clinic 1919 North Capitol	926-4471 (OPEN 24 E	IOURS)
	Indianapolis Industrial Clinic 320 North Meridian	635-4425 (OPEN 24 H	IOURS)
HOSPITAL			
EMERGENCY	St. Vincent(Switchboard) St. Vincent(Records) St. Vincent(Emergency) Methodist Winona Memorial(Indpls) Community Witham Memorial (Lebanon) 1- Riverview(Noblesville)	871-2442 2001 W. 8 871-2220 2001 W. 8 871-2121 2001 W. 8 924-8355 1604 N. C 927-2341 3232 N. M 353-5457 1500 N. R 482-2700 1124 N. L 773-0760 395 Westf	6th 6th apitol deridian itter ebanon
		Ext.235	
OTHERS	Spill Recovery of Indiana Indianapolis Power & Light Dr. Elliott Yolles (eyes)	291-3972 637-0377 257-3325 9100 Mer 259-4080(Home) 926-3466(Page #)	idian Sq.

OIL SPILL

- 1. INDIANA STATE BOARD OF HEALTH
 - (A) 24 HR NUMBEP 633-0144
- 2. NATIONAL RESPONSE CENTER
 - 1-800-424-8802
- 3. U.S. EPA REGION 5
 - (A) 24 HR NUMBER 1-312-353-2318
 - (B) GREG VANDERLAAN 1-312-886-6217
- 4. MARION COUNTY HEALTH AND HOSPITAL CORPORATION ROSEMARY N. HANSELL 633-3691

ROCK ISLAND REFINING CORP.

THIRD ANNUAL CONTINGENCY PLAN MEETING MINUTES

The third (3rd) Annual Contingency Plan Meeting began at 10:08 a.m., Thursday, July 26, 1984, with brief television coverage by Jonas Chaney of Channel 8. The meeting was called to order by Walter Palmer, Rock Island Safety/Security Manager. Walt then introduced William E. Huff, President of Rock Island, who welcomed everyone present on behalf of Rock Island. Bill, in his opening remarks, referred to the very recent Lamont, ILL, Union Oil explosion and fire.

Walt had everyone present introduce themselves. Present were:

Ron Peters - Fire Protection and Safety Coordinator - comes to us with ten (10) years safety experience and with experience in the construction of Atomic Energy Plant Generators

Kay Newman - Safety Secretary

Jeff Sipes - Safety Intern, Fire Technology and Safety student at Oklahoma State University

David Goodrow - Safety Intern, Industrial Risk Management student at Eastern Kentucky University

Jerry Davis - Rock Island Public Relations Director
Sgt. Richard Gates - Marion County Sheriff's Department
Communications Division

First Sgt. Jim White and Sgt. John Glenn - Indiana State Police, District 52

Chuck Wilson and Mike Sorg - Indiana Air Pollution Control John Fetter - President, and Andy Jacobs, Colonel - Nora Security

Chief Chuck Berry, Lt. Mike Tyler, Capt. Rick Pohlman, and Assistant Chief Tim Faulk - Pike Township Fire Department

Bill Laque - Environmental Coordinator - Rock Island - Originator of Rock Island's Contingency Plan Jim Renshaw - Administrative Resident - St. Vincent's Hospital

Walt reviewed the history of the Contingency Plan and incidents which have activated the plan.

1. Gas vapor cloud release of 1/12/82

2. Gasoline transport truck overturned south of refinery 7/-/82
In another incident, a power line fell outside the plant

In another incident, a power line fell outside the plant boundaries - winter 1984 - and a Pike truck backup was called. The Contingency Plan was not activated in its entirety. (See pg 2, remarks by Chief Berry).

Contingency Plan updates were passed out.

LAND REFINING CORP.

A slide show followed showing the areas of new process and equipment installed by Rock Island since the last meeting:

1. Rock Island has leased the railroad from 86th to 96th streets. Numerous rail cars of LPG and ethanol alcohol are being unloaded in the Refinery at a site with approved D.O.T. "Hazardous Materials" unloading procedures. There is sixteen (16) hour attendance during the activity of unloading of both types of materials.

2. Asphalt Materials area south of parking lot - leased from R.I. - WE ARE NOT RESPONSIBLE for that area.

3. Slide showing location of process unit for the manufacture of leaded hi-octane aviation gasoline.
a. Tetraethyl lead bldg.

4. Slide of deluge protection at Park Road Loading Terminal where Avgasoline is being loaded into transports.

A Question and Answer period followed the slides. Chuck Berry recommended that Contingency Plan response be divided into "Planned Incident Types." This would allow activation of parts of the "Plan" when activation of the whole plan is not necessary. The three levels of incident which Chief Berry recommended were:

1. Within Rock Island - self-contained fire; able to be taken care of internally

2. Medical Emergency

- 3. Notify Pike a fire which requires the assistance of Pike Township Fire Department
- 4. General Emergency Contingency Plan in action how to rotate people in and out as needed in emergency. Noted staging area for emergency is Pike Township Station #3

Chief Berry also stated that "access to scene" was critical to a fire for Rock Island and the Pike Fire Department. Also a "simulation" of the Contingency Plan needs to take place in order to see just how well it works.

Bill Parker, President of Nora Security, stated that his job is to dispatch cars to Rock Island, seal off the area, and allow emergency vehicles only on scene, and to fall back to the plant boundaries when relieved by local law enforcement agencies.

First Sgt. Jim White of the Indiana State Police, District 52, stated that the people of the community were his first responsibility. The Indiana State Police will therefore participate in the Contingency Plan Activation as much as possible.

John Fetter, President of Spill Recovery of Indiana, Inc., said that most of his people were familiar with Rock Island and were prepared for possible hazardous material clean up and containment at the site.

-LAND REFINING CORP.

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First Sgt. Jim White said that car stickers and name tags were a good idea for emergency situations. He was told that the Rock Island Management had white and blue car stickers and that the hourly people had green car stickers.

Sgt. Richard Gates of the Marion County Sheriff's Department, Communications Division, remarked on the fact that if we were to have a fire of the magnitude of those mentioned, long term involvement would be the situation. He stated that barricades need to be added to his equipment.

A tenative date in August, 1984, is targeted for an exercise simulating an emergency requiring the use of the Contingency Plan. Chuck Wilson, Indiana Air Pollution Control, was asked if he would notify the state and he replied that he would. He informed those present that the function of his department is to identify the emission of hazardous material and to monitor its direction of travel and to notify the proper agencies so they can provide protection for communities threatened and they can decide whether evacuation is necessary or not.

Walt Palmer stated that we have an Emergency Response Team at Rock Island and not a Fire Brigade. The E.R.T. is comprised of people who can immediately leave their post in order to respond to any emergency, including fire. He also said that from the information garnered at the Boots and Coots Seminar that he recently attended in Urbana, ILL, it can take considerable time after the beginning of a large storage tank involvement before the firefighters would get to the point of putting the fire out. BUT, there is no way to totally plan for a situation like that in Lamont, ILL, at the Union Oil Refinery.

Chuck Berry of Pike Township Fire Department stated that all Pike personnel carry I.D.'s. During an emergency NO ONE should drive within R.I. perimeters in their own vehicle. All should go to Station #3 where they will be assigned to a vehicle.

Chuck Wilson of the Indiana Air Pollution Control Board asked if R.I. had interfaced with Grissom AFB as a source of foam. Walt answered that we have talked to Grissom and to the Indianapolis International Airport, but that they use a different kind of foam. Walt said additional foam was available by truck from Chicago and by plane from Lionville, PA. It was suggested that R.I. get with the State Police to coordinate efforts for an escort from Chicago for a foam truck. Rock Island has approximately 3000 gallons of foam concentrate on hand. This 3000 gallons includes 500 gallons available for community emergencies when authorized by the consignor.

There being no further questions, answers, or comments, the meeting was adjourned at $11:15~\rm a.m.$ A brief social/business period followed.

Respectfully submitted,

Katherine J. Newman, Secretary

SECTION VIII

ACCIDENTAL IGNITION OR REACTION OF IGNITABLE, REACTIVE OR INCOMPATIBLE WASTES

Ignitable, reactive or incompatible hazardous wastes are $\underline{\text{not}}$ treated or stored at the refinery.

SECTION IX

TRAFFIC PATTERNS

All wastes stored or treated onsite are transported by off-road vehicles. A two-lane asphalt road provides access to the storage and treatment facilities.

SECTION X

FACILITY LOCATION INFORMATION

100-year floodplain. None of the storage and treatment facilities at the refinery are within the 100-year floodplain. See the Federal Insurance Administration flood map attached hereto as Appendix B.

SECTION XI

PERSONNEL TRAINING

The following material constitutes the refinery's PERSONNEL TRAINING PROGRAM as required by 40 C.F.R. § 264.16. This program is directed by William E. Laque, Coordinator of Environmental Affairs, and includes instruction for refinery personnel regarding hazardous waste management procedures and contingency plan implementation of those procedures. This training program is designed to ensure that refinery personnel are able to respond effectively to emergencies by familiarizing them with emergency procedures, emergency equipment and emergency systems. It includes:

- (1) Procedures for using, inspecting, repairing and replacing facility emergency and monitoring equipment;
- (2) Procedures for using two-way radio communications;
 - (3) Responses to fires or explosions; and
 - (4) Shutdown of operations.

Because of the small number of personnel involved in hazardous waste management at the refinery, these personnel have received the training through on-the-job training. Each of the refinery personnel have or will successfully have completed this training program on or before May 19, 1981. Any employee assigned to such a position after the effective date of these regulations will not be assigned in an unsupervised position until they have completed this training program. This program shall be completed by each new employee no later than six months after the date of their employment for or assignment to this responsibility. Each of the refinery personnel will take part in an annual review of this training program for his or her particular responsibility.

The job title for each position at the refinery related to hazardous waste management and the name of the employee filling each job is as follows:

Job Title	Designated Employee
Coordinator of Environmental Affairs	William E. Laque
#2 Operator	Ed Suda
#2 Operator	David Meier
#2 Operator	Tim Schooler
#2 Operator	Tom Schmerber

A written job description for the #2 Operator position is attached hereto as Appendix C. Before assignment to the #2 Operator job position, an applicant must pass satisfactorily the test attached hereto as Appendix D.

The materials KO49, KO50 and KO51 and the vacuum filter cake resulting from treatment of those materials are classified by EPA as hazardous wastes because of the presence of lead and chromium. While the lead and chromium levels are relatively low and this material is presently a candidate for delisting, prudence dictates that employees never physically contact these materials. To minimize such exposure, employees are required to use Class A protective clothing. Employees are generally instructed as to the potential danger of these wastes and are further instructed to avoid contact and to wear protective clothing. Employees are also given instructions as to safety procedures, such as fire emergency responses, as more fully described in Section VII (the CONTINGENCY PLAN).

Records documenting the training or job experience required for hazardous waste management positions are maintained at the refinery. These training records will be maintained on current employees until closure of the storage and treatment facilities and will be kept for former employees

for at least 3 years from the date the employee last worked at the refinery.

SECTION XII

CLOSURE PLAN

- A. Title and Purpose
- B. Facilities and Waste Description.
- C. Closure Plan
 - 1. Closure Criterion
 - 2. Disposal or Decontamination of Equipment
 - 3. East and West API Oil-Water Separators
 - 4. API Separator Sludge Receiving Tanks
 - 5. Vacuum Filter
- D. Closure Cost Estimate
- E. Closure Schedule
 Schedule A.

A. Title and Purpose.

A copy of this Closure Plan and all revisions thereof is and will be maintained at the refinery until closure is completed and certified in accordance with 40 C.F.R. S 264.115.

The purpose of the Plan is to demonstrate compliance with the requirements of the Resource Conservation and Recovery Act, as amended, 42 U.S.C. § 6901, et seq., and the applicable regulations promulgated pursuant thereto, 40 C.F.R., Part 264.

B. Facilities and Waste Description.

The operations of the refinery involve the following waste treatment and storage facilities: an East API oil-water separator; a West API oil-water separator; an API separator sludge receiving tank; and a vacuum filter. These facilities may be subject to the closure requirements of 40 C.F.R., §§ 264.111-265.115 and 264.197.

These treatment and storage facilities are subject to the closure requirements because some of the wastes now generated at the refinery have been listed as hazardous by

the United States Environmental Protection Agency (EPA).

40 C.F.R., Part 261. Thus, 40 C.F.R., Part 261, designates slop oil emulsion solids (K049), heat exchanger bundle cleaning sludge (K050) and API separator sludge (K051) as hazardous wastes because of the lead and chromium levels possibly contained in those materials. The EPA has preliminarily determined that these wastes generated at the refinery are nonhazardous. The Company's delisting petition and EPA's preliminary determinations are attached as Appendix E.

C. Closure Plan.

This Plan identifies and describes the steps necessary to close each of the refinery's hazardous waste storage and treatment facilities at any point during the intended operating life of the refinery or at the end of its intended operating life. The facilities are estimated to be closed in the year 2011. The estimate of the expected year of closure for these facilities is based on their remaining useful life.

1. Closure Criterion. The Plan, as more fully described below, is designed in a manner to minimize the need for further maintenance; and control, minimize or eliminate, to the extent necessary to protect human health and the environment, post-closure escape of hazardous waste, hazardous waste constituents, leachate, contaminated rainfall,

or waste decomposition products to the groundwater, or surface waters, or to the atmosphere.

- 2. <u>Disposal or Decontamination of Equipment</u>. When closure is completed, all the facilities' equipment and structures will have been properly decontaminated by removing all hazardous wastes and residues.
- ast and West API Oil-Water Separators. The east and west API separators have a total process design capacity of 3,456,000 gallons per day. The final volume of sludges will be removed and treated by vacuum filtering, and the resulting dewatered filter cake will be properly disposed of. The separators will subsequently be decontaminated by washing with water. The water washings also will be treated by vacuum filtration to remove solids, with the filtrate discharged to the municipal sewer. Within 90 days after receiving the final volume of wastes, all materials in the separators will be removed. Any closure related activities will be completed within six months after receiving the final volume of wastes.

The cost of closing the East and West API separators is based on each separator containing 312 cubic yards of material which is reduced to 156 cubic yards after dewatering in the filter press. At an assumed cost of disposal of \$15

per cubic yard, this results in a waste disposal cost estimate of \$4,680. To remove and process the separator wastes and decontaminate the separators will require approximately 88 man-hours. At \$20 per man-hour, this calculates to \$1,760, for a total closure estimate for the East and West API oilwater separators of \$6,440 (in 1981 dollars). There will not be any post-closure responsibilities associated with the separators.

4. API Separator Sludge Receiving Tank. The API separator sludge receiving tank has a cumulative design capacity of 6,000 gallons. The final volume of stored material will be removed and treated in the vacuum filter with the resulting dewater sludge being properly disposed of. The tank will then be decontaminated by successive flushings with water. The water washings will be treated in the vacuum filter to remove solids, the filtrate passed through the onsite aeration treatment system and discharged to the municipal sewer. Within 90 days after receiving the final volume of wastes, all materials in the tank will be removed. Any closure related activities will be completed within six months after receiving the final volume of wastes.

The tank holds 30 cubic yards of material which will be reduced to 15 cubic yards after dewatering in the vacuum filter. At an assumed cost of disposal of \$15 per

cubic yard, this results in a waste disposal cost estimate of \$225. To remove and process the wastes in the tank and decontaminate the tank will require approximately 8 man-hours. At \$20 per man-hour, this calculates to \$160. In addition, a vacuum filter truck will be needed to transfer the material from the tank to the vacuum filter at an estimated cost of \$240, for a total closure estimate for the tank of \$625 (in 1981 dollars).

There will not be any post-closure responsibilities associated with the tank.

5. Vacuum Filter. The vacuum filter has a capacity of approximately 5 cubic yards. The final volume of wastes will be removed and properly disposed of. The vacuum filter will then be decontaminated by flushing with water. The water washings will be passed through the on-site aeration ponds and discharged to the municipal sewer. Within 90 days after receiving the final volume of wastes, all materials in the vacuum filter will be removed. Any closure related activities will be completed within six months after receiving the final volume of wastes.

The cost of closing the vacuum filter is based on the estimate that 5 cubic yards of material will have to be disposed of. At an assumed cost of disposal of \$15 per cubic

yard, this results in a waste disposal cost estimate of \$75. To remove and process the wastes and decontaminate the vacuum filter will require approximately 8 man-hours. At \$20 per man-hour, this calculates to \$160, for a total closure estimate for the vacuum filter of \$235 (in 1981 dollars).

There will not be any post-closure responsibilities associated with the vacuum filter.

D. Closure Cost Estimate.

The 1981 closure cost estimate for the waste facilities at the refinery is \$7,300. The cost of closing each of the facilities is estimated for that point in its operating life that would be the most expensive. A new closure cost estimate will be prepared whenever a change in the Plan affects the cost of closure. In addition, the latest closure cost estimate will be adjusted annually using an inflation factor derived from the annual Implicit Price Deflator for Gross National Product as published by the U.S. Department of Commerce in its <u>Survey of Current Business</u>. The inflation factor must be calculated by dividing the latest published annual Deflator by the Deflator for the previous year. The result is the inflation factor. The adjusted closure cost estimate must equal the latest closure cost estmate times the inflation factor. See Schedule A.

E. Closure Schedule.

The refinery will submit this Plan to the Regional Administrator at least 180 days before the closure of any of these facilities is begun. The Regional Administrator will approve, modify or disapprove the Plan within 90 days of its receipt.

Within 90 days after receiving the final volume of wastes, or 90 days after approval of the Plan, if that is later, the refinery will treat or remove from the site all wastes in accordance with the approved Plan. The Regional Administrator may approve a longer period in which to effect closure. The refinery will complete closure activities in accordance with the Plan and within 180 days after receiving the final volume of wastes (or 180 days after approval of the Plan, if that is later), unless the Regional Administrator approves a longer closing period.

When closure is completed for any of these facilities, the refinery will submit to the Regional Administrator a certification both by the refinery and an independent registered professional engineer that the facility has been closed in accordance with the appropriate specifications in the Plan. This Plan may be amended from time to time and will be amended any time changes in operating plans or facility

design affect the Plan, or whenever there is a change in the expected year of closure of the facility. The Plan will be amended within 60 days of the changes.

A copy of the financial assurance mechanism adopted in compliance with 40 C.F.R. § 264.143 is attached as Appendix F.

SCHEDULE A

Closure Cost Estimates

Test Year	Annual Implicit Price Deflator*	Inflation Factor	Adjusted Closure Cost Estimate
1981	188.14 (lst quarter)	1.000	\$7,300
1982	201.88 (lst quarter)	1.073	\$7,833
1983	215.34	1.067	\$8,355
1984	223.44	1.038	\$8,670

^{*/} Survey of Current Business.

SECTION XIII

POST-CLOSURE PLAN

Because none of the facilities are hazardous waste disposal facilities, they are not regulated by the post-closure requirements. 40 C.F.R. § 264.110(b).

SECTION XIV

NOTICE IN DEED TO PROPERTY

There is no requirement for any deed notation as no RCRA hazardous waste has been disposed at the refinery. 40 C.F.R., § 264.120.

SECTION XV

DOCUMENTATION OF INSURANCE

Liability coverage is maintained for sudden accidental occurrences at the refinery in the amount of at least \$1,000,000 per occurrence, with an annual aggregate of at least \$2,000,000, exclusive of legal defense costs. A signed duplicate original of the endorsement of insurance to the Regional Administrator is attached as Appendix G.

SECTION XVI

SITE INFORMATION

- A. Topography
- B. Regional Geology

A. Topography

The natural ground surface in the vicinity of the project site is relatively flat. General site drainage is toward the south, east and west. Oil Creek is located just east of the refinery and runs in a south southeasterly direction. Little Eagle Creek commences just south of the refinery and flows in a southerly direction. The White River is located approximately 6 miles southeast of the project site.

Surface water flow from within the limits of the refinery (particularly within the tank farm area) is controlled by man-made facilities such as earthen dikes, roads, drainage conduits, and ditches and valves. The surface water drainage is channeled toward Oil Creek on the east side of the plant and some of the runoff is directed to a ditch on the west side of the refinery, which then flows south to Little Eagle Creek.

The individual tank bottoms contain drains located at or near the lowest point of elevation within the tank bottom. The drains have direct access (by means of individual valves) to piping which passes through the earth dikes and eventually outfall into a drainage ditch.

B. Regional Geology

The City of Indianapolis is located within the State Physiographic Division known as the Tipton Till Plain. This unit is typified by a nearly flat to gently rolling terrain which is dissected by generally southwest trending valleys. The surface topography of the Tipton Till Plain is primarily a result of the last continental glaciation (Wisconsin Age).

The unconsolidated deposits in the vicinity of the project site consist primarily of glacial till materials and extend to approximately 170 ft. depth. The glacial till is characterized by predominantly fine-grained deposits (silt and clay) intermixed with sand and gravel.

The surficial soils at the site (as mapped in the U.S. Department of Agriculture Soil Conservation Service Soil Survey for Marion County) are classified as belonging to the Brookston and Crosby Soil Series. These soils are both characterized as being of low permeability.

A map illustrating the surficial geology of Marion County is contained within U.S. Geological Survey Open-File Report 75-312 ("Availability of Ground Water in Marion County, Indiana") and is reproduced in Appendix H. The location of

the project site is also shown in Appendix H. Shale bedrock is present immediately below the glacial till materials.

As indicated in Appendix H, outwash sand and gravel deposits are associated with the major streams. The glacial outwash deposits constitute the principal aquifer in the region. In addition, the Geological Survey Report indicates that three relatively thin, discontinuous sand and gravel aquifers have been identified in the upland till-plain area. These aquifers (hereafter referred to as the upper, middle and lower confined aquifers) vary in thickness and are generally separated by predominantly silt and clay materials which act as semipervious confining beds.

Appendices I, J and K (reproduced from the Geological Survey Report) show the areal distribution, approximate elevation of the top, and points of known thickness of the upper, middle and lower confined aquifers, respectively. As shown in Appendix I, the upper confined aquifer apparently does not exist in the general vicinity of the project site. Furthermore, the site lies outside those limits indicated for the middle and lower confined aquifers as well (see Appendices J and K). However, the refinery is located sufficiently close to the middle and lower aquifer boundaries such that their presence must be considered. According to Appendix J, the top of the middle confined aquifer in the

general vicinity of the refinery is at or about El 780 or approximately 100 ft. below the existing ground surface within the project area (El 880 to El 890).

The general pattern of ground water flow with respect to the various aquifers is shown in Appendix L (reproduced from the Geological Survey Report). The cross-section represents generalized conditions approximately perpendicular to the White River.

Several existing industrial and residential water wells are located around the project site. Copies of the well records (on file with the Indiana Department of Natural Resources - Groundwater Division) for those wells drilled within a 4000 ft. radius of the refinery are contained in Appendix M. The individual water well records (for purposes of this study) are referenced by an index number in the upper right hand corner of the well record. The locations of the wells are identified by the index numbers on the Water Well Location Map in Appendix M.

Maps relating to, among other things, the topography of the refinery, surrounding land uses, legal boundaries, the prevailing wind directions at the refinery and drainage at the refinery are presented in Appendix N. See also maps attached to the original Part A application (Section I).

APPENDIX A

CHEMICAL AND PHYSICAL ANALYSES FOR SOLID AND HAZARDOUS WASTES STORED OR TREATED AT THE REFINERY

EMS Laboratory

EMS Laboratories, Inc., Two Environmental Plaza, 7901 West Morris Street, Indianapolis, Indiana 46231, has performed the sampling and testing of the wastes. Generally, samples are placed in two-liter wide-mouth borosilicate glass containers that are fitted with tight, screw type lids. nature of the materials analyzed do not require sample preservation or alternation subsequent to sampling. Sample Extraction and Separate Procedures were observed as outlined in 40 C.F.R., Part 261, Appendices II and III. All analytical methods used by the EMS Laboratories are EPA approved for RCRA hazardous waste determinations. The names and model numbers of the instruments used in performing the tests are as follows: Fisher Accumet Expanded Scale Research pH meter, Model 320; Six Paddle Stirrer, Model 300, 110v 60HZ, Phipps & Bird, Inc., Richmond, A 23228, modified to comply with EP toxicity requirements; Ohaus, Triple Beam Balance, 2610 capacity; Technicon Auto Analyzer System II; Technicon Sampler IV; S.C. Colorimeter; Mainfold; Pump; Pen Recorder; Perkin-Elmer, 360, Atomic Absorption Spectrophotometer; Perkin-Elmer HGA-2100 Controller; Fisher Recordall Series 500 Single Pen Recorder; and Perkin-Elmer, 370, Atomic Absorption Spectrophotometer, Mercury Analysis System.

The names and qualifications of the persons sampling and testing are as follows:

SAMPLING:

Clarence L. Tharpe

18 years Environmental Health

Experience

TESTING:

C. Steven Gohmann

Laboratory Director

BA Chemistry, Indiana University

8 Years Analytical Experience

Gary A. Klingler

Chief Chemist

BS Chemistry, Marion College

6 Years Analytical Experience

Carl A. Mueller

Biologist

BS Biology, Purdue University

2 Years Analytical Experience

Charles A. Schneider

Laboratory Technician

BS Biology, Indiana University

1 Year Analytical Experience

Tyler P. Jones

Technician Assistant Two years of College

(University of Kansas)

1 Year Analytical Experience

Karen K. Riley

Technician Assistant

High School Diploma

1 Year Analytical Experience

	EMS Laborate 7901 Morris St	ories Company reet	REPORT		•	DATE REC	EIVED December 9, 1980	
	P.O 41371	- 40044	EMS SAI	MPLE #190				DELIVERY
	Indianapolis, Indiana (317) 243-8304	3 46247	P.O. #	38953-1280			YPEGRABCOMPOSITE	TICKET
	SAMPLE SOURCES	Rock Island Refining	SAMPLE Corporati	SAMPLE DESCRIPTION DRINKING WATER DESCRIPTION				1
		PO Box 68007 Indianapolis, Indian	a 46268			STE WATER	!	
	BILL TO:	Attn: Bill Laque			Leachate OTHER EP Toxicity			
		•	COLLEC	TED BY	DATE SAMPLED			No. 6741
	PARAMETER	RESULTS		DATE ANALYZ	ZED .	ANALYST	METHOD OF ANALYSIS	CHARGE
	REACTIVITY ASSI							
	Cyanide	17.1	μg/g	r 12-	L5 C	. Schneider	Distillation + barbituric acid colorimetric	ስ ደብ ብብ
	Sulfide	Not	detectable	in Lead Ac	etate		acid cololimetic	\$ 50.00
	CORROSIVITY							
	pH	8.6		12-		. Mueller	Electrode method	3.50
بد د ت	Steel Corrosion	< 0.01	mm/y	r 12-2	23 C	. Schneider	NACE	100.00
•	IGNITABILITY	***						
	Flash Point	SOLII	SAMPLE/N		E			
	EP TOXICITY							10N OD
	Cadmium	< 0.01	mg/1			. Jones	Atomic absorption	₹250.00
	Chromium Lead	0.20 1.3	mg/l mg/l					
	Silver	0.03	mg/1					FROM THIS COPY
	Mercury	< 0.000		12-2		Jones	Flameless A A	SIH
	Arsenic	< 0.05	mg/l	12-2	3 G.	Klingler		8
	Selenium Barium	< 0.05	mg/l	7.0		_		PY
		3.4	mg/l	12-2	2 T.	Jones	Atomic absorption	
	Leachate Prep c	harge				,		
	₩:		+			2,	1 VI: 0	0/02.55
	REMARKS: The	enalyses per	elains	DATA I	REVIEWED BY:	Mary C	GARY KINGLER	\$403.50

REPORT COPY

TMC `aboratories Company
J1 Lac Morris Street
P.O. Box 41371
Indianapolis, Indiana 46241
(317) 243-8304

REPORT DATE	March 2	0, 1981	DATE RECEIVED_	March	2, 1981	•
EMS SAMPLE #	∠0625					 ラ DELIVERY
P.O. # A. 3496-			SAMPLE TYPE	GRAR	COMPOSITE	 TICKET

SAMPLE SOURCES Rock Island Refining Companies Description DRINKING WATER

PO Box 68007

Indianapolis, Indiana 46268

Attn: Bill Laque

BILL TO:

Leachate OTHER

.WASTE WATER

COLLECTED BY______DATE SAMPLED______

						· · · · · · · · · · · · · · · · · · ·		
1	PARAMETER	RESULTS		DATE ANALYZED	ANALYST	METHOD OF ANALYSIS	С	HARGE
	pH Total Solids	9.0 39.9 %		3-4 3-6	C. Schneider P. Burton	Electrode method Gravimetric		\$ 3.50 12.00
	Cadmium Chromium Lead Silver	<pre></pre>	mg/l mg/l mg/l	3-7	T. Jones	Atomic absorption	٧,	250,00
	Mercury Arsenic Selenium	<pre>0.02 < 0.0005 < 0.01 < 0.01</pre>	mg/l mg/l mg/1	3-18	C. Schneider	Flameless A A	DO	
	Chromium VI Barium	$\frac{3}{5.2}$.01	mg/1 mg/1	3-12 3-9	C. Burton T. Jones	Colorimetric Atomic absorption	NOT PAY	12.00
	Cyanide	14.8	μg/gr	3-5	C. Schneider	Distillation + barbituric acid colorimetric	FROM	
	Sulfide	200	µg/gr	3-7	C. Schneider	Titrimetric - iodine	SIHT	
	Total Lead - as received Total Chromium -	<u>≺</u> 9.8	ug/gr	3~11	T. Jones	Atomic absorption	7403	10.00
	as received Sample Prep	3062	μg/gr	3-11	T. Jones	Atomic absorption		10.00 14.00

DATA REVIEWED BY:

\$ 311.50

No. 729:

C. STEVEN GOHMANN

REMARKS:

EMC Laboratories 790. Morris Street P.O. Box 41371 Indianapolis, Indiana 4624 (317) 243-8304	, , , , , , , , , , , , , , , , , , ,	REPORT DATE <u>Apr</u> EMS SAMPLE # 210 P.O. # A 3496-28	90 A & B		VEDMarch 25, 1981 EGRABCOMPOSITE	DELIVERY TICKET
SAMPLE SOURCES	ck Island Refining Co	SAMPLE DESCRIPTION_		DRIN	KING WATER	
PO Inc	Box 68007 dianapolis, Indiana 4 on: Bill Laque	·			E WATER	No. 2499
	(COLLECTED BY		DATE SAMPL	ED	110. 2400
AMENDED LAB REPORT	PAIN	· · · · · · · · · · · · · · · · · · ·			ļ.	
PARAMETER #21090 A - EP Toxici	RESULTS	DATE ANALY	ZED	ANALYST	METHOD OF ANALYSIS	CHARGE
pН	7.8	4-6		Mueller	Electrode method	
Total Solids	6.5 %	4-9		Burton	Gravimetric	
Cadmium	< .01	mg/1 4-8	C.	Schneider	Atomic absorption	
Chromium	0.34	mg/l			·	
Lead	0.4	mg/l				•
Silver	0.01	mg/1	-			
Mercury Arsenic		mg/1 4-9	C.	Schneider	Flameless A A	
Arsenic Selenium		mg/l			•	
Barium	$\frac{3}{3}, 0.02$	mg/l	0	C-1 3 3		
Chromium	< .01	mg/1 4-8 $mg/1$ 4-8		Riley	Atomic absorption Colorimetric	
Cyanide	29.8	mg/l 4-8 µg/gr 3-31		Klingler	Distillation + barbituric	DO
Cyanitae	29.0	μg/ gr 3-31	L G.	KIINGIEL	acid colorimetric	NO.
Sulfide	NOT DETECT	TABLE USING LEAD	ACETATE			PAY
#21090 B - Total Ana	lysis				۠	DO NOT PAY FROM THIS COPY
Chromium	165	μg/gr 3-26	Ġ.	Schneider	Atomic absorption	<u>→</u>
Lead	74	μg/gr 3-26			Atomic absorption	8
Sample Prep and Slud		F0'0" 4	-		· · · · · · · · · · · · · · · · · · ·	Ç
			4		·	~~
					:	
		-			4.	
•	•				:	

REMARKS:

DATA REVIEWED BY:

C. STEVER GOHMANN

	FMS Laboratories Company 11 West Morris Street P.O. Box 41371 Indianapolis, Indiana 46241 (317) 243-8304		REPORT	DATE	April 17, 198	<u>.</u>			
H.O. Box 41371			EMS SAMPLE # Z1090 A & B				DELIVER		
, ,			P.O. #A 3496-281		1	SAMPLE TYPEGRABCOMPOSITE			TICKET
SAMPLE SOURCES	Rock Islan PO Box 680	d REfining Cor	SAMPLE J	DESCRIPTION_		DAI	NKING V	VATER	
		is, Indiana 46	268			WAS	STE WAT	ER	
BILL TO:	Attn: Bill	Laque	,		Leachate	ОТН	IER		
			COLLECTED BY			DATE SAMPLED			No. 210
PARAMETER #21090 A - EP	Toxicity	RESULTS		DATE ANALY	ZED	ANALYST	ΜĘ	THOD OF ANALYSIS	CHARGE
pH Total Solids		7.8 65,004	mg/l	4-6 4-9	~	. Mueller . Burton		trode method imetric	\$ 3.50 12.00
Cadmium Chromium Lead			mg/l mg/l	4-8	C	. Schneider	Atom	ic absorption	250.00
Silver Mercury		0.4 0.01 < .0005	mg/1 mg/1					·	
Arsenic Selenium		₹ 0.02 ₹ 0.02	mg/l mg/l mg/l	4-9	С	. Schneider	F1am	eless A A	

#21090 B - Total Analysis

Sample Prep & Sludge charge

Chromium Lead

165 μg/gr 74 μg/gr

3.1

29.8

< .01

mg/1

mg/1

µg/gr

NOT DETECTABLE USING LEAD ACETATE

3 - 263-26

4~8

4-8

3-31

C. Schneider Atomic absorption

K. Riley

G. Klingler

C. Schneider Atomic aboseption

C. Schneider Atomic absorption

Colorimetric

acid colorimetric

Distillation + barbituric

DO NOT PAY FROM THIS COPY.

12.00

DATA REVIEWED BY:

\$376.50

C. STEVEN

REMARKS:

Chromium VI

Barium

Cyanide

Sulfide

•	ries Company	REPORT D				
West Morris Str P.O. Box 41371	eel	EMS SAME	ole# 21205 - Tot	al Analysis	. .	DELIVERY
Indianapolis, Indiana (317) 243-8304	46241			SAMPLE TY	PEGRABCOMPOSITE	TICKET
SAMPLE SOURCES	Rock Island Refining C PO Box 68007	SAMPLE D Corporatio	ESCRIPTION		IKING WATER	
BILL TO:	Indianapolis, Indiana Attn: Bill Laque	46268		Leachate OTH	· N	No. 2498
		COLLECTE	D BY	DATE SAMPI	EO	
 AMENDED LAB REP	ORT	J			· :	
PARAMETER	RESULTS		DATE ANALYZED	ANALYST	METHOD OF ANALYSIS	CHARGE
pH Cyanide	8.1 0.78	mg/l	4-8 4-20	C. Mueller T. Jones	Electrode metohd Distillation + barbituric acid colorimetric	NO CHARGI
Sulfide Cyanide A	NOT DET 0.78	ECTABLE W	VITH LEAD ACETATE 4-20	T. Jones	Same as above	
Cadmium Chromium Lead Silver	<pre></pre>	mg/1 mg/1 mg/1 mg/1	4-10	C. Schneider	Atomic absorption	
Mercury Arsenic Selenium	<pre>< .0005 0.02 0.02</pre>	mg/l mg/l mg/l	4-9	C. Schneider	Flameless A A	DC
Barium Chromium VI * Flash Point	2.0 < .01 See Note	mg/l mg/l e	5-10 4-9	C. Schneider K. Riley	Atomic absorption Colorimetric) NOT PAY
TOTAL ANALYSIS					• .	FROM
Chromium Lead Sample Prep	362 127	µg/gr µg/gr	4-10	C. Schneider	Atomic absorption	DO NOT PAY FROM THIS COPY
 tempera absorpt	is not a liquid and is ture and pressure of ca tion of moisture or spor- more, when ignited, it	ausing fi ntaneous	re through fricti chemical change;	on,		

REMARKS:

DATA REVIEWED BY:

NO CHARGE

P.O. Box 41371 Indianapolis, Indiana (317) 243-8304 SAMPLE SOURCES BILL TO:	46241	REPORT DATE Ail 27, 1981 DATE RECEIVED April 1, 1981 EMS SAMPLE # 21205 - Total Analysis P.O. # A 3496 SAMPLE TYPE GRAB COMPOSITE SAMPLE DESCRIPTION DRINKING WATER Orporation WASTE WATER Leachate OTHER) ELIVERÝ TICKET
		COLLECTED E	BY	DATE SAMPL	.ED		
					;· '	:	
PARAMETER pH Cyanide	RESULTS 8.1 0.78	mg/1	ATE ANALYZED 4-8 4-20	ANALYST C. Mueller T. Jones	METHOD OF ANALYSIS Electrode method Distillation + barbituri	\$: Lc	ARGE 3.50
Sulfide	NOT DET	ECTABLE WIT	H LEAD ACETATE		acid colorimetric	50	0.00
Cyanide A Cadmium Chromium	0.78 ≤ .01 1.18	mg/l mg/l mg/l	4-20 4-10	T. Jones C. Schneider	Same as above Atomic absorption		2.00 0.00
Lead Silver Mercury Arsenic Selenium Barium	≤.1 0.01 ≤ .0005 0.02 0.02 2.0	mg/1 mg/1 mg/1 mg/1 mg/1	4-9	C. Schneider	Flameless A A	DO NOT PAY FROM THIS	
Chromium VI	< .01	mg/l	4-9	K. Riley	Colorimetric	≆ 12	2.00
Flash Point	130° F		4-7	P. Burton	Penske Martin Closed Cup	4 ">	5.00
Flash Point aft	er 24 Hrs Open 135° F		4-20	P. Burton	Penske Martin Closed Cup		5.00
TOTAL ANALYSIS							
Chromium Lead Sample Prep	362 127	μg/gr μg/gr	4-10	C. Schneider	Atomic absorption	10. 10. 29.	.00
		# # # # # # # # # # # # # # # # # # #		1.06		-	
REMARKS:			DATA REVIEWED	э ву:		\$ 436	.00

C. STEVEN GOHMANN

1S Laboratorio West Morris Street P.O. Box 41371		REPORT DAT	THE COLUMN	DATE NECE	April 10, 1981	DELIVERY
Indianapolis, Indiana 46 (317) 243-8304	24 1	P.O. #A	3496 - 281	SAMPLE TY	PEGRABCOMPOSITE	TICKET
SAMPLE SOURCES	ock Island Refining C	SAMPLE DES	CRIPTION	DRI	NKING WATER	
P	O Box 68007 ndianapolis, Indiana	-	Marie April 1980	WAS	BTE WATER	
BILL TO: A	ttn: Bill Laque		Le	achateoth	IER	N: 000
		COLLECTED BY		DATE SAME	No. 2264	
PARAMETER	RESULTS	D	ATE ANALYZEO	ANALYST	METHOD OF ANALYSIS	CHARGE
#21393 - A EP To:						
pН	9.7		4-13	C. Mueller	Electrode method	\$ 348.5
Total Solids	591,899		4-17	P. Burton	Gravimetric	
Cadmium	< .01	mg/l	4-14	C. Schneider	Atomic absorption	
Chromium	1.15	mg/1				
Lead	< .1	mg/l				4
Silver	.02	mg/1			•	
-Mercury	< .0005	mg/1	4-17	C. Schneider	Flameless A A	0
Arsenic	₹ .05	mg/l				Ō
Selenium	₹ .05 ₹ .05	mg/l			<i>:</i>	9
Barium	2.4	mg/1	4-14	C. Schneider	Atomic absorption	20
Chromium VI	< .01	mg/l	4-16	J. Murray	Colorimetric	~<
Cyanide	13.2	μg/gr	4-22	T. Jones	Distillation + barbituric acid colorimetric	DO NOT PAY FROM THIS COPY
Sulfide	NOT DET	ECTABLE USI	NG LEAD ACETATE	1		丟
Cyanide on DI ex	t. then					Ω
Dist.	0.85	μg/gr	4-24	T. Jones	Distillation + barbituric acid colorimetric	YAO
#21393 - B Total	Analysis					
Chromium	1383	μg/gr	4-14	C. Schneider	Atomic absorption	49.00
Lead Sample Prep	362	μg/gr μg/gr	ny 26.44	O. Politicador	monto appospaton	-4 7 6 0 0
-						

REMARKS:

DATA REVIEWED BY:_

\$397.50

	PO Box 6800	i Refining Co O7	rporation	# 21393 A & B		DRIN	PEGRABCOMPOSITE NKING WATER	DELIVERY TICKET
	Indianapoli BILL TO: Attn:Bill 1	is, Indiana 4 Laque	6268	1e	achate	отн	ER	in Ofoc
			COLLECTED B	Y		DATE SAMP	LED	No. 2500
	AMENDED LAB REPORT							
	PARAMETER #21393 - A - EP Toxicity	RESULTS	DA	ATE ANALYZED	,	ANALYST	METHOD OF ANALYSIS	CHARGE
	pH Total Solids Cadmium Chromium Lead Silver Mercury	9.7 59 % <.01 1.15 <.1 .02 <.0005	mg/l mg/l mg/l mg/l mg/l	4-13 4-17 4-14	P. C.		Electrode method Gravimetric Atomic absorption Flameless A A	NO CHARG
1	Arsenic Selenium Barium Chromium VI Cyanide	 ₹ .05 ₹ .05 2.4 ₹ .01 13.2 	mg/l mg/l mg/l mg/l µg/gr	4-14 4-16 4-22	J.	Schneider Murray Jones	Atomic absorption Colorimetric Distillation + barbituric acid colorimetric	DO NOT PAY FROM THIS COPY
•	Sulfide Cyanide on DI ext. then Dist.	NOT DET	ECTABLE USI μg/gr	NG LEAD ACETATE		Jones	Distillation + barbituric acid colorimetric	M THIS COPY
	#21393 - B Total Analysis Chromium Lead Sample Prep	1383 362	ug/gr μg/gr	4-14	C.	Schneider	Atomic absorption	
					÷			

REMARKS:

DATA REVIEWED BY:

C. STEVEN GOHMANN

NO Charge

.

⁻MS Laborat	ories Company	REPORT DATE	' v 18, 1981	DATE RECE	May 13, 1981	:
1 West Morris St P.O. Box 41371		EMS SAMPLE #	21929			DELIVERY
Indianapolis, Indiana (317) 243-8304	a 46241	P.O. #A 349	6-281	SAMPLE TY	SAMPLE TYPE GRAB COMPOSITE	
SAMPLE SOURCES	Rock Island	SAMPLE DESCRIP	TION	DRI	NKING WATER .	
BILL TO:	PO Box 68007 Indianapolis, Indian Attn: Bill Laque	a 46268			TE WATER	1
		COLLECTED BY	· ·		LED	No. 2501
AMENDED LAB REP	ORT					
PARAMETER	RESULTS	DATE ,	ANALYZED	ANALYST	METHOD OF ANALYSIS	CHARGE
* Flash Point	See No:	te		·		
tempera absorp	is not a liquid and is ature and pressure of a tion of moisture or spo rmore, when ignited, is	causing fire the	rough friction, cal change:			NO CHARG
	,					DO NOT PA
						DO NOT PAY FROM THIS COPY
				A114		
REMARKS;			DATA REVIEWED BY:_			NO CHARGE

C. STEVEN GOHMANN...

'S Laboratori	ies Company ι	REPORT DATE		ECEIVED May 13, 1981	4
P.O. Box 41371 Indianapolis, Indiana 46241		EMS SAMPLE # 2192			DELIVERY
(317) 243-8304		P.O. #	SAMPLE	TYPEGRABCOMPOSITE	S S Sant S & Sant S
SAMPLE SOURCES	Rock Island PO Box 68007	SAMPLE DESCRIPTION_		DRINKING WATER	1
**	Indianapolis, India	ına 46268 — —	\	VASTE WATER	Į.
BILL TO: Attn: Bi	Attn: Bill Laque	. -	Solid	OTHER	- No. 2361
		COLLECTED BY	DATE SA		No. 2361
				,	
PARAMETER	RESULTS	DATE ANALY	ZED ANALYST	METHOD OF ANALYSIS	CHARGE
Flash Point	120° F	5-14	P. Burton	Penske Martin Closed Cup	\$ 25.00

DO NOT PAY FROM THIS COPY

DATA REVIEWED BY:

	oratories Company ris Street 1	,		E	.981 DATE RECE	July 27, 1981	DELIVERY
Indianapolis, 1 (317) 243-8304					SAMPLE TY	PEGRABCOMPOSITE	TICKET
SAMPLE SOU	RCES Rock Island Re	efining	SAMPLE DESC	CRIPTION	DRIN	NKING WATER	
BILL TO:	PO Box 68007 Indianapolis, Attn: Bill Lac		46268	· · · · · · · · · · · · · · · · · · ·	Sludge	TE WATER	
			COLLECTED E		DATE SAMP	LED	No. 3391
PARAMETER		RESULTS	,ם	ATE ANALYZED	ANALYST	METHOD OF ANALYSIS	CHARGE
Vacuum Fil	ter Sludge						·
Cyanide T	otal	3.2	μg/gr	7–29	C. Schneider	Distillation + barbituric acid colorimetric	no chargi
Cyanide To	tal – Water extrac	et 0.4	μg/gr				
Cyanide A		0.3	μg/gr				

DO NOT PAY FROM THIS COPY

REMARKS:

Lang A. Klingker
GARY KLINGLER
REPORT COPY

4	EMS Loratories, Inc. Two Environmental Plaza 7901 West Morris Street Indianapolis, Indiana 46231 (317) 243-830			E F ruary 2	82 DATE REC	EIVEO February 11, 1982	REPORT
1	SAMPLE SOURCES Rock Island Refine PO Box 68007 Indianapolis, Inc.	ning				YPEGRABCOMPOSITE PLED	NUMBER
:	Attn: Bill Laque		OIL LEACHATE OTHER		REMARKS	tected at level indicated	No.1237 Do not pay from this copy
	PARAMETER	RESULTS	ים	ATE ANALYZED	ANALYST	METHOD OF ANALYSIS	CHARGE
	EP TOXICITY						
	Chromium VI Chromium Lead TOTAL ANALYSIS	ND @ .01 0.29 0.2	mg/l mg/l mg/l	2-16 2-17 2-17	M. Branam A. Lee A. Lee	Colorimetric Atomic absorption Atomic absorption	\$ 164.00
	pH Total Solids Chromium Lead Chromium (Dry) Lead (Dry)	8.8 54.6 % 1338 48.7 2450	ug/gr ug/gr ug/gr ug/gr	2-11 2-12 2-22 2-22	M. Smith K. Riley A. Lee A. Lee	Electrode method Gravimetric Atomic absorption	64.50
	Sample Prep						\$228.50
	4 Hours - Consultation - @ S	\$45.00 = \$180	.00				180.00

DATA REVIEWED BY:

\$408.50

SPECIAL WASTE ANALYSIS REPORT

ROCK ISLAND REFINING CORP INIANAPOLIS, IN SOURCE: SAL SITE: CID

LABORATORY: Chemical Waste Management	VACUUM FILTER CAKE
PROFILE SHEET RECEIVED ON: YAZZZ REPRESE	NTATIVE SAMPLE RECEIVED ON: 4/29/83
CERTIFICATE OF REP. SAMPLE RECEIVED: 4/29	/83 SAMPLE TAKEN: 6/30/82
PROPOSED TREATMENT/DISPOSAL FACILITY:	YON-WME!
THE ANALYSES BELOW REPORTED WERE SEL	ECTED BY ME, BASED UPON THE GENERATOR'S

THE ANALYSES BELOW REPORTED WERE SELECTED BY ME, BASED UPON THE GENERATOR'S REPRESENTATIONS IN THE PROFILE SHEET AND ANY APPLICABLE WASTE ANALYSIS PLAN ESTABLISHED BY THE PROPOSED FACILITY FOR WASTE OF THIS TYPE. ANALYSES REQUIRED BY A WASTE ANALYSIS PLAN ARE INDICATED BY AN ASTERISK (**)

DATE OF ANALYSIS: 6.7-83 LAB MANAGER: Kick & Stongle

Test	As Received	Leachate	影X	Test	As Received	Leachate	Analyst
Specific Gravity			T ' '				1
PH 10% SOLUTION	8.4						†
Acidity, % as							
Alkalinity, % as				Phenois, mg/l	<10,0		
C O D, mg/l			1	Cyanides, as CN, Total, mg/l	<td></td> <td> </td>		
8 O D ₆ , mg/l				Cyanides, as CN, Free, mg/t	1700		†
Total Solids @ 105°C	74.16%						
Total Dissolved Sollds, mg/l	1.4.4			Nitrogen, Ammonia, as N. mg/l			ł
Total Suspended Solids, mg/l				Nitrogen, Organic, as N. mg/l			}
Residue on Evaporation @ 180°C				Total Kjeldahl Nitrogen, as N, mg/l			<u> </u>
Flash Point, F*	2212			Total Alkalinity (P), as CaCOs, mg/l			
Ash Content, on Ignition	>212 50.00%		 	Total Alkalinity (M), as CaCOs, mg/l	 		
Heating Valve, BTU/lb			[Total Hardness, as CaCO ₂ , mg/l	l		
"Acid Scrub," gNaOH/g			t	Calcium Hardness, as CaCOs, mg/i	 -	ļ 	1
	·	·	<u> </u>	Magnesium Hardness, as CaCO ₃ , mg/l			
Arsenic, as AS, mg/l	50.10		·	magnissium randiness, as pacos, high			
Barlum, ss Ba, mg/l	262	-	2.37		 		
Boron, as Bi, mg/l	0 100		1000	Oil and Grease, mg/l			
Cedmium, as Cd, mg/l	2.75		0.02	On and Grease, mar		 	├
Chromium, Total as Cr, mg/l	626.		0.26				
Hexavalent Chromium @ Cr, mg/l	war.		0.00	Aldrin, mg/l		<u> </u>	
Copper, as Cu, mg/l	171.		<0.01	Chlordane, mg/l		ļ	
iron, Total as Fe, mg/l	1-11-		20.01	DDT's, mg/l		 	
iron, dissolved, as Fe, mg/l			 	Dieldrin, mg/l		<u> </u>	
Lead, as Pb, mg/l	227		0,28	Endrin, mg/l		 	
Manganese, as Mn, mg/l	122/-		Ci och	Heptachlor, mg/l			
Magnesium, as Mg, mg/l			 	Lindane, mg/l		ļ	
Mercury, as Hg, mg/l	2 02		20 000	Methoxychlor, mg/l			-
Nickel, as Ni, mg/i	223		Koon			<u> </u>	ļ
Selenium, as Se, mg/l	10.X		0,23	Toxaphene, mg/l		 	ļ
Sliver, as Ag, mg/l	70,00		 	Parathion, mg/l		ļ	
Zinc, as Zn, mg/l	122		11-0	2, 4, D, mg/l	<u> </u>	 	
	100.		4.02	2, 4, 5, TP (Silvex), mg/t	15	 	<u> </u>
				PCB's, mg/l	<5.0	 	<u> </u>
Bicarbonates, as HCO ₃ , mg/l			 		 		
Carbonates, as CO ₃ , mg/l							
Chlorides, as Cl. mg/l					 	 -	1
Fluorides, as F, mg/l						_	1
Nitrate, as NO ₁ , mg/l			ļ			 	
Nitrite, as NO ₂ , mg/l						 	
Phosphate, as P. mg/l				· · · · · · · · · · · · · · · · · · ·	 	 	
Sulfate, as SO4 mg/l					 		
Suilides, as S, mg/I Q AOO 1 Kg	V/2 01						 -

FORM WMI-52 (Rev. 11-5-80) \$1980 WASTE MANAGEMENT, INC.

Sillabri tories, Inc. Egymonn Plaza West Morras Street	Addendum B	REPORT DAG	37837	DATE RECEIV	/EDMarch 29, 1984	
inapolis, Indiana 45231 (317) 2	43-8304	EMS SAMPLE		·	——————————————————————————————————————	REPOR
Cartification # IN02		P.O. #	52162	SAMPLE TYPE	EGRABCOMPOSITE	NUMBE
5000 W. 86t		WASTEWATER	· · · · · · · · · · · · · · · · · · ·	DATE SAMPLE	O	
indianapoli Attn: Bill	s, Indiana 46268 Laque	SLUDGE	-	COLLECTED B	Y	
τọ		OIL	,	BEMARKS		
		LEACHATE				No. 881
- į		OTHER		** The state of th	Adaptive Control of the Control of t	Do not pay in
Tanana and an		OTTIEN.		* 1 ·	*** * **** * * * * * * * * * * * * * *	this copy
PARAMETER	RESULTS	0.4	TE ANALYZED	ANALYST	METHOD OF ANALYSIS	THARGE
#37837 - Vacuum Filter	r Cake					
#37837 - Vacuum Filter EP TOXICITY - per Atta	r Cake achmend D	MMC*	4-19	M. Day	•	
Chromium - per Atta	r Cake ochmend D 0.66	MMC* 0.29	4-19 mg/1	M. Branam	Atomic absorption	Billed
EP TOXICITY - per Atta Chromium Cadmium	0.66 0.66 ≤ 0.02		mg/l	M. Branam	Atomic absorption	Billed
EP TOXICITY - per Atta Chromium Cadmium Lead	Ochmend D	0.29 0.03	mg/1 mg/1	M. Branam M. Branam	Atomic absorption Atomic absorption	Billed
Chromium Cadmium Lead iSilver	0.66 0.66 ≤ 0.02	0.29 0.03 0.22	mg/l mg/l mg/l	M. Branam M. Branam M. Branam	Atomic absorption Atomic absorption Atomic absorption	Billed
Chromium Cadmium Lead Silver Barium	0.66 0.66 ≤ 0.02 ≤ 0.1	0.29 0.03 0.22 0.01	mg/l mg/l mg/l mg/l	M. Branam M. Branam M. Branam M. Branam	Atomic absorption Atomic absorption Atomic absorption Atomic absorption	Billed
Chromium Cadmium Lead iSilver Barium Mercury	ochmend D 0.66 ≤ 0.02 ≤ 0.1 ≤ 0.1 1.7	0.29 0.03 0.20 0.01 0.01	mg/l mg/l mg/l mg/l mg/l	M. Branam M. Branam M. Branam M. Branam M. Branam	Atomic absorption Atomic absorption Atomic absorption Atomic absorption Atomic absorption	Billed
Chromium Cadmium Lead (Silver Barium Mercury Arsenic	0.66 ≤ 0.02 ≤ 0.1 ≤ 0.1 1.7 0.01	0.29 0.03 0.22 0.01 0.01 ≤ 0.005	mg/1 mg/1 mg/1 mg/1 mg/1	M. Branam	Atomic absorption Atomic absorption Atomic absorption Atomic absorption Atomic absorption Flameless A A	Billed
Chromium Cadmium Lead iSilver Barium Mercury	0.66 ≤ 0.02 ≤ 0.1 ≤ 0.1 1.7 0.01 ≤ 0.1	0.29 0.03 0.22 0.01 0.01 ≤ 0.005 0.006	mg/1 mg/1 mg/1 mg/1 mg/1 mg/!	M. Branam	Atomic absorption Atomic absorption Atomic absorption Atomic absorption Atomic absorption Flameless A A	Billed
Chromium Cadmium Lead (Silver Barium Mercury Arsenic	0.66 ≤ 0.02 ≤ 0.1 ≤ 0.1 1.7 0.01	0.29 0.03 0.22 0.01 0.01 ≤ 0.005	mg/1 mg/1 mg/1 mg/1 mg/1	M. Branam	Atomic absorption Atomic absorption Atomic absorption Atomic absorption Atomic absorption Flameless A A Flameless A A	Billed
Chromium Cadmium Lead (Silver Barium Mercury Arsenic	0.66 ≤ 0.02 ≤ 0.1 ≤ 0.1 1.7 0.01 ≤ 0.1 ≤ 0.1	0.29 0.03 0.22 0.01 0.01 ≤ 0.005 0.006 0.017.	mg/l mg/l mg/l mg/l mg/l mg/l mg/l	M. Branam	Atomic absorption Atomic absorption Atomic absorption Atomic absorption Atomic absorption Flameless A A	Billed
Chromium Cadmium Lead iSilver Barium Mercury Arsenic Selenium Chromium VI	0.66 ≤ 0.02 ≤ 0.1 ≤ 0.1 1.7 0.01 ≤ 0.1 ≤ 0.1 ≤ 0.1	0.29 0.03 0.22 0.01 0.01 ≤ 0.005 0.006 0.017.	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	M. Branam	Atomic absorption Atomic absorption Atomic absorption Atomic absorption Atomic absorption Flameless A A Flameless A A	Billed
Chromium Cadmium Lead Silver Barium Mercury Arsenic Selenium Chromium VI	0.66 ≤ 0.02 ≤ 0.1 ≤ 0.1 1.7 0.01 ≤ 0.1 ≤ 0.1 ≤ 0.0 ≤ 0.5	0.29 0.03 0.22 0.01 0.01 ≤ 0.005 0.006 0.017.	mg/1 mg/1 mg/1 mg/1 mg/1 mg/1 mg/1 mg/1	M. Branam	Atomic absorption Atomic absorption Atomic absorption Atomic absorption Atomic absorption Flameless A A Flameless A A Colorimetric	Billed
Chromium Cadmium Lead Silver Barium Mercury Arsenic Selenium Chromium VI Antimony Beryllium	0.66 ≤ 0.02 ≤ 0.1 ≤ 0.1 1.7 0.01 ≤ 0.1 ≤ 0.1 ≤ 0.01 ≤ 0.5 ≤ 0.01	0.29 0.03 0.22 0.01 0.01 ≤ 0.005 0.006 0.017. NR 0.05 0.01	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	M. Branam C. Schneider G. Schneider	Atomic absorption Atomic absorption Atomic absorption Atomic absorption Atomic absorption Flameless A A Flameless A A Flameless A A Colorimetric ICP	Billed
Chromium Cadmium Lead Silver Barium Mercury Arsenic Selenium Chromium VI Antimony Beryllium Cobalt	0.66 ≤ 0.02 ≤ 0.1 ≤ 0.1 1.7 0.01 ≤ 0.1 ≤ 0.01 ≤ 0.01 ≤ 0.01 ≤ 0.01 ≤ 0.01	0.29 0.03 0.22 0.01 0.01 ≤ 0.005 0.006 0.017. NR 0.05 0.01	mg/1 mg/1 mg/1 mg/1 mg/1 mg/1 mg/1 mg/1	M. Branam C. Schneider G. Schneider C. Schneider	Atomic absorption Atomic absorption Atomic absorption Atomic absorption Atomic absorption Atomic absorption Flameless A A Flameless A A Flameless A A Colorimetric ICP	Billed
Chromium Cadmium Lead (Silver Barium Mercury Arsenic Selenium Chromium VI Antimony Beryllium Cobalt Vanadium	0.66 ≤ 0.02 ≤ 0.1 ≤ 0.1 1.7 0.01 ≤ 0.1 ≤ 0.01 ≤ 0.01 ≤ 0.01 ≤ 0.01 ≤ 0.01 ≤ 0.01 ≤ 0.01	0.29 0.03 0.22 0.01 0.01 ≤ 0.005 0.006 0.017. NR 0.05 0.01 0.38 0.13	mg/1 mg/1 mg/1 mg/1 mg/1 mg/1 mg/1 mg/1	M. Branam C. Schneider C. Schneider C. Schneider C. Schneider	Atomic absorption Atomic absorption Atomic absorption Atomic absorption Atomic absorption Flameless A A Flameless A A Flameless A A Colorimetric ICP ICP	Billed
Chromium Cadmium Lead Silver Barium Mercury Arsenic Selenium Chromium VI Antimony Beryllium Cobalt	0.66 ≤ 0.02 ≤ 0.1 ≤ 0.1 1.7 0.01 ≤ 0.1 ≤ 0.01 ≤ 0.01 ≤ 0.01 ≤ 0.01 ≤ 0.01	0.29 0.03 0.22 0.01 0.01 ≤ 0.005 0.006 0.017. NR 0.05 0.01	mg/1 mg/1 mg/1 mg/1 mg/1 mg/1 mg/1 mg/1	M. Branam C. Schneider G. Schneider C. Schneider	Atomic absorption Atomic absorption Atomic absorption Atomic absorption Atomic absorption Atomic absorption Flameless A A Flameless A A Flameless A A Colorimetric ICP	Billed

NR - Cannot analyze CrVI on the solvent-insoluble portion (N.M.A.)

VIEWEL AV

120000

EMS Laborato			REPORT DATE	July 9, 1	984	 DATE RECEN	v _{ED} March 29, 1984	
au Enviror al Pl sul West Mcs Stre Sanapolis, Indiana	201	9304	EMS SAMPLE #	2 %				DEDAR
PA Certification # IN	021		P.O. #	52162	·· # <u></u>	SAMPLE TYP	EGRABCOMPOSITE	REPORT NUMBER
AMPLE SOURCES	5000 W. 86th		WASTEWATER-					
	Indianapolis, Attn: Bill La	Indiana 46268 que	SLUDGE				3Y	
it To.			OIL			REMARKS		
	DRAFT		LEACHATE					No. 8919
			OTHER			-		Do not pay from
: PARAMETER		RESULTS	DAT	E ANALYZED	1A	VALYST	METHOD OF ANALYSIS	this copy
#37837 - 1	/acuum Filter (Cake - Analyzed	"As Received	l" per 40 CFR	261 26			
Nickel		1 69	µg/gr µg/gr	4-4 4-4	M	. Branam	Atomic absorption	Billed
Chromium : Lead		405	ug/gr	4-4		Branam Branam	Atomic absorption	311160
Antimony		47	ug/gr	4-4		. branam . Branam	Atomic absorption	
Beryllium		39	ug/gr	4-4		Branam	Atomic absorption	
Barium		0.2	µg/gr	4-4		Branam	Atomic absorption	
Mercury		26	'μg/gr	4 – 4		Branam	Atomic absorption	
Arsenic		≤ 0.01	ug/gr	4 – 4		Branam	Atomic absorption	
Selenium		0.26	- µg/gr	4-4		Branam	Atomic absorption	
Cobalt		≤ 2.5	ug/gr	4-4		Branam	Atomic absorption	
Vanadium		.8	μg/gr	4-4		Branam	Atomic absorption	
Silver		≤ 4	ug/gr	4-4			Atomic absorption	
	,	≤ 0.25	ug/gr	4-4		Branam	Atomic absorption	
Total Solid	Is ·	64 %	G · B	5-13		Branam	Atomic absorption	
Chromium VI		≤ 12	ug/gr	6-25		Bidwell	Gravimetric	
Oil & Greas	e	14 %	. 0 .0 .	5-14		Gatton	Alkaline Digestion	
100		1340	µg/gr	7-10	HL	Stockrahm	Liquid extraction Pyrolysis/microcoulomet	er
Solid Resid	ue After Step	9 80 % of o	riginal mass				titration	
Volatiles &	Semi-Volatile	s See attacl	ned data					

· REVIEWED BY Hay a. Klinglac

TENDER COL

Rock Island Refining Corporation 5000 W. 86th St. Indianapolis, Indiana 46268

Date Sampled: 3-29-84 Vacuum Filter Cake

EMS Sample #: 37837

TABLE I VOLATILE ORGANIC PRIORITY POLLUTANTS

EPA NO.	COMPOUND	RESULTS (ppm)
2*	acrolein	NI)
3*	acrylonitrile	ND
4	benzene	11
6 7	carbon tetrachloride	ФИ
	chlorobenzene	ND
10	1,2-dichloroethane	ND
[]	l,l,l-trichloroethane	ND
1.3	1,1-dichlornethane	ND
1,4 1,5	1,1,2-trichloroethane	ND
16	1,1,2,2-tetrachloroethane	ND
19	chloroethane	ND
23	2-chloroethylvinyl ether	ND
29	chloroform	ND
30	l,l-dichloroethylene	ND
32	trans-1,2-dichloroethylene	ND
33	1,2-dichloropropane	ND
33	trans-1,3-dichloropropeno	ND
38	cis-1,3-dichloropropene	ND
44	ethylbenzene	75
45	methylene chloride	. ND
46	chloromethane	ND
47	bromomethane	ND
48	bromoform	ND
49	bromodichloromethane	ND
50	trichlorofluoromethane	ND
51	dichlorodifluoromethane	ДИ
-85	dibromochloromethane	ИD
86	tetrachloroethylene	ND
87	toluene	110
88	trichloroethylene	ND
00	vinyl chloride	ND

NQ = Present below quantification limit.

Detection Limit (ppm): .002 *Detection Limit (ppm): .02

Surrogate Recoveries (%)
1,2 Dichloroethane-d4
Toluene-d8
Bromofluorobenzene
18

EMS

____July_9,_1984_____

Table I - Continued Rock Island Refining Corp.

EMS Sample #: 37837

Sample ID: 3-29-84 Vacuum Filter Cake

SEMIVOLATILE ORGANICS

EPA NO.	COMPOUND	RESULTS (ppm)
21*	2,4,6-trichlorophenol	
22*	p-chloro-m-cresol	ND
24*	2-chlorophenol	ND
31*	2,4-dichloropheno;	ИD
34*	2,4-dimethylphenol	ND
57*	2-nitrophenol	- ND
58 *	4-nicrophenol	ИD
59**	2,4-dinitrophenol	ND
60**	4,6-dinitro-o-cresol	ND
64*	pentachlorophenol	ИD
65*	phenol	ND
	PHCHO!	ND
1	acenaphthene	
5	benzidine	ND
8	1.2,4-trichlorobenzene	ND
9	hexachlorobenzene	- MD
12	hexachloroethane	ND
17	his (phiamark t)	ND
18	bis(chloromethyl)ether	ND
20	bis(2-chloroethyl)ether	ДИ
25	2-chloronaphthalene	ИD
26	1,2-dichlorobenzene	ND
27	1,3-dichlorobenzene	ND
28	1,4-dichlorobenzene	MD
35	3,3'-dichlorobenzidine	ND
36	2,4-dinitrotoluene	ND
37	2,6-dinitrotoluene	ND
39	1,2-diphenylhydrazine	ND
40	fluoranthene	0.38
41	4-chlorophenyl phenyl ether	ND
42	4-bromophenyl phenyl ether	ND
43	bis(2-chloroisopropyl)ether	ND
4.3 5.2	bis(2-chloroethoxy)methane	ND
53	hexachlorobutadiene	ND .
53 54	hexachlorocyclopentadiene	ND
54 55	isophorone	ND
70 56	naphthalene	1.7
, ,	nitrohenzene	ND .

July 9, 1984

Table I - Continued Rock Island Refining Corp.

EMS Sample #: 37837

Sample ID: 3-29-84 Vacuum Filter Cake

SEMIVOLATILE ORGANICS - Continued

RESULTS (ppm) ND ND ND ND ND ND ND ND ND N
ND ND ND ND ND ND ND
ND ND ND ND ND ND
ND ND ND ND ND ND
ND ND ND ND ND
ND ND ND ND
ND ND ND ND
ND ND ND
ND ND NQ
NQ NQ
NQ
, ,
NQ
ND
ND
0.12
- ND
0.070
ND
0.13
0.87
ND
ND .

NQ=Present below quantification limit.

Detection Limit (ppm): .05
*Detection Limit (ppm): .125
**Detection Limit (ppm): 1.25

Surrogate Recoveries (%)	
Dichlorobenzene-d4	7
Nitrobenzene-d5	,
Naphthalene-d8	ND
Phenanthrene-d10	9
Chrysene-d12	10
Phon-1 is	2]
PhenoI-d5	ND
2-Pluorophenol	
2,4,6 Tribromophenol	ИD
Pentafluorophenol	ND
and adult obugue!	ND

TABLE II

	Consensation
METALS	Concentration (ppm)
Antimony	
Arsenic	39
Barium	0.26
Beryllium	26
Cadmium	0.2
Chromium	1.0
Cobale	405
Lead	8.0
Mercury	47
Nickel	: 0.01
Selenium	69
Vanadium	≤ 2.5
	≤ 4.0
ORGANICS	
Acetonitrile	
Acrolein	ND
Acrylonitr(le	ИD
Aniline	ND
Anthracene	ND
Benz(c)acridine	0.07
Benz(a)anthracene	ND
Benzene	NO
Benzenethiol	1 1
Benzidine	ND
Benzo(b)fluoranthene	ND
Penzo(j)fluoranthene	ND
Benzo(k)fluoranthene	ND
Senzo(a)pyrene	ND
Benzyl chloride	NQ
Bis(2-chloroethyl)ether	ND
51s(2-chloroisopropy1)ether	ND
Bis(chloromethyl)ether	ND
Bis(2-ethylhexvl)phthalare	ND
Butyl benzyl phthalate	ND
Carbon Disulfide	ND
p-Chloro-m-cresol	ND ND
Chlorobenzene	ND
Chloroform	ND
Chloromethane	ND
2-Chloronaphthalene	ND
2-Chlorophenol	ND .
Chrysene	O TO
Cresol	0.12
Crotonaldehyde	(IN
Dibenz(a,h)acridine	ND
Dibenz(a,j)acridine	NI)
Ulbenz(a,h)anthracene	NI)
/H-Dibenzo(c,g)carbazole	ND
	ND .

Table II ~ Continued

ORGANICS - Continued	Concentration (ppm)
7,12-Dimethylbenz(a)anthracene	
Dibenzo(a,e)pyrene	NID
Dibenzo(a,h)pryene	ND
Dibenzo(a,i)pyrene	ND
Di-n-butyIphthalate	ND
l,l-Dichloroethane	ND
Dichlorobenzenes	ND
1,2-Dichloroethane	ND
1,1-Dichloroethylene	. ND
	ND .
1,2-Dichloroethylene Dichloromethane	ND
	ND
Dichloropropane	ND .
Dichloropropanol	ND
Diethyl phthalate	ND
2,4-Dimethylphenol	ND
7,12-Dimethyl Benz(a)anthracene	ND
Dimethylphthalace	ND
4,6-Dinitro-o-creso:	ND ·
2,4-Dinitrophenol	ND
Dinitrotoluene	N1)
Di-n-octyl phthalat.	ND
l,4-Dioxane	ND
l,2-Diphenylhydrazine	ND
Ethyleneimine	ND
Ethylene Dibromide	ND
Ethylene oxide	ND
Fluoranthene	0.38
Hydrogen sulfide	ND
Hydroquinone	NI)
Indene	1.0
Indeno(1,2,3-od)pyrano	ND
Isophorone	ND
2-Methyl Aziridine	ND
Methyl Benz(c)phenanthrene	ND
Methyl Mercaptan	ND
3-Methylcholanthrene	ND
Methyl Chrysene	ND
Methyl Ethyl Ketone	ND
1-Methyl Naphthalene	
Maphthalene	3.5
Naphthylamine	1.7
5-Nitroacenapthene	ND
p-Nitroaniline	ND
Nitrobenzene	ND
Nitrophenol	ND
N-Nitrosodiethylamine	ND
Pentachlorophenol	NI)
Phenanchrene	ND
Phenol	0.87
Pyrene	ND
Pyridine	0.08
y	ND -

Table II - Continued

DUANTEC	Concentration (ppm)
RGANICS - Continued	
Quinoline	ND
Styrene	ПN
Tetrachloroethanes	ND
Tetrachloroethylene	ND
Toluene	110
Trichlorobenzenes	ND 1.10
Trichloroethanes	ND 141)
Trichloroethylene	· -
Trichlorophenols	ND
Trimethyl Benz(a)anthracene	ND
and the second (a) and that cells	ND

APPENDIX B

FEDERAL INSURANCE ADMINISTRATION FLOOD MAP

To determine if flood insurance is available in this community, contact your insurance agent, or call the National Flood Insurance Program, at (800) 638-6620.



APPROXIMATE SCALE

1000 FEET

NATIONAL FLOOD INSURANCE PROGRAM

FLOOD INSURANCE RATE MAP

CITY OF INDIANAPOLIS, INDIANA

MARION COUNTY (INCLUDES CITY OF BEECH GROVE, CITY OF LAWRENCE, CITY OF SOUTHPORT TOWN OF SPEEDWAY)

PANEL 10 OF 100

COMMUNITY-PANEL NUMBER 180159 0010 C

> EFFECTIVE DATE: **MAY 15, 1984**

Federal Emergency Management Agency

KEY TO MAP

500-Year Flood Boundary	
100-Year Flood Boundary	-
Zone Designations*	
100-Year Flood Boundary	The second section of the
500-Year Flood Boundary	
Base Flood Elevation Line With Elevation in Feet**	an an analysis of 513 representations of the second sec
Base Flood Elevation in Feet Where Uniform Within Zone**	(EL 987)
Elevation Reference Mark	RM7×
Zone D Boundary	·
River Mile	•M1.5
**Referenced to the National Geode	etic Vertical Datum of 1929

*EXPLANATION OF ZONE DESIGNATIONS	
ZONE	EXPLANATION
A	Areas of 100-year flood; base flood elevations and flood hazard factors not determined.
AO	Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; average depths of inundation are shown, but no flood hazard factors are determined.
AH -	Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; base flood elevations are shown, but no flood hazard factors are determined.
A1-A30	Areas of 100-year flood; base flood elevations and flood hazard factors determined,
A99	Areas of 100-year flood to be protected by flood protection system under construction; base flood elevations and flood hazard factors not determined.
	Areas between limits of the 100-year flood and 500-year flood; or certain areas subject to 100-year flooding with average depths less than one (1) foot or where the contributing drainage area is less than one square mile; or areas protected by levees from the base flood, (Medium shading)
C .	Areas of minimal flooding, (No shading)
Ð	Areas of undetermined, but possible, flood hazards.
V	Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors not determined.

NOTES TO USER

V1-V30

determined.

Areas of 100-year coastal flood with velocity (wave

action); base flood elevations and flood hazard factors

Certain areas not in the special flood hazard areas (zones A and V) may be protected by flood control structures.

This map is for flood insurance purposes only; it does not necessarity show all areas subject to flooding in the community or all planimetric features outside special flood hazard areas.

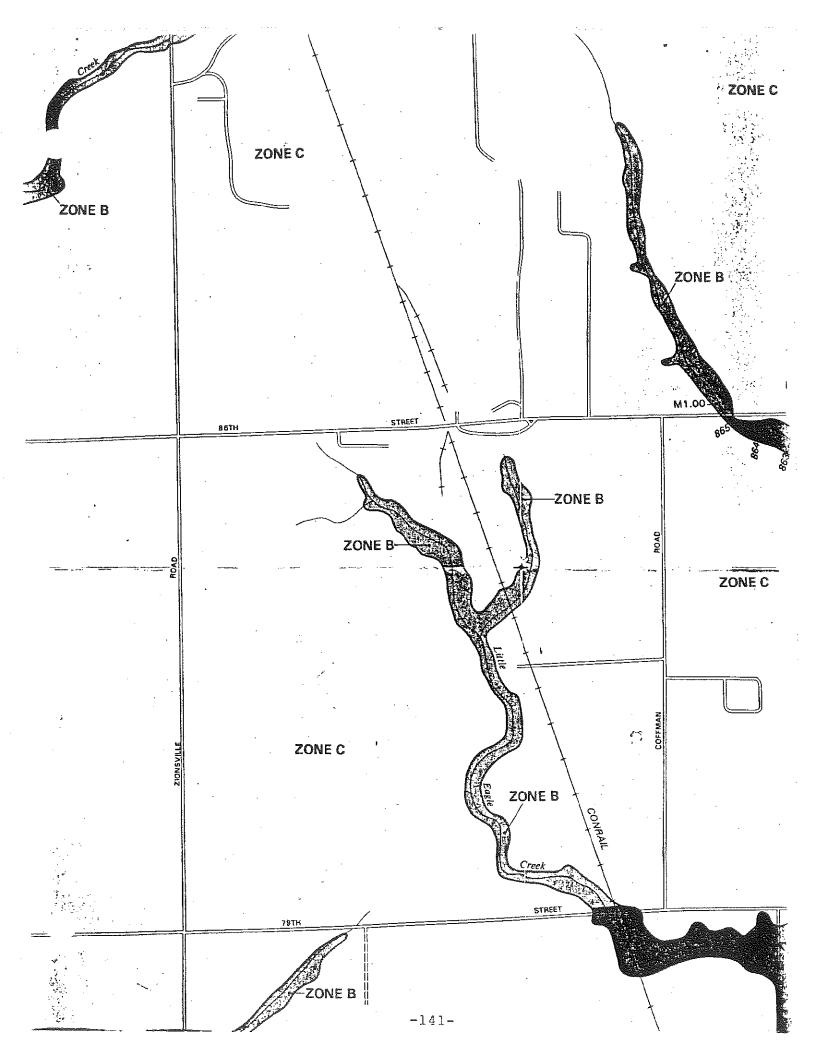
For adjoining map panels, see separately printed Map Index.

INITIAL IDENTIFICATION:

MAY 17, 1974

FLOOD HAZARD BOUNDARY M. & REVISIONS: SEPTEMBER 24, 1976

SEPTEMBER 15, 1978



APPENDIX C

#2 OPERATOR JOB DESCRIPTION

ROCK ISLAND REFINING CORP.

JOB DESCRIPTION OF AREA 1 NO. 2 OPERATOR

The following is a summary of responsibilities for the job of #2 Operator. It is intended to aid the person breaking in to learn the job.

- 1. Treating Light Cat Gasoline (LCG)
- 2. Treating Heavy Cat Gasoline (HCG)
- Tank Switching and Gauging
- 4. Safety
- 5. Recover slop for feed stock and transfer to the appropriate tank.
- 6. Chemical Injection
- 7. Lab results and action to be taken based on the Lab results.
- 8. Run Oliver Vacuum Filter

Light Cat Gasoline

- 1. Know flow (including pumps, valves, etc.) from the Debutanizer level control to Light Cat Gasoline Treater (Merox) through the sand filter to storage.
- Know the flow of caustic circulation for the Light Cat Gas Treater including control valve.
- 3. In addition to flows, the Treater should know how to:
 - a) Transfer spent caustic from L.C.G.T. to storage Tanks. (What storage Tanks?)
 - b) Blow out lines with air after transfer of spent caustic.
 - c) Get fresh caustic to the Treater
 - 1) Where is fresh caustic stored?
 - 2) Blow out lines with air after transfer completed.
 - d) Where the level should be in the Treater and how to control the level.
 - e) Transfer caustic from sand filter to L.C.G.T.
 - f) Control back pressure on sand filter and treater. What should that pressure be?
 - g) Control the differential pressure across the mixing valve. What should that pressure be?
 - h) Control air rate on the roto meter. What rate should that be?
 - i) Add catalyst to Merox Unit.
 - Catch sample of caustic and run Baume' on the sample.
 - k) Interpret Lab results on:
 - 1) Acid Oil
 - 2) Spent Caustic
 - 3) What is done based on Lab results?
 - 1) Run Doctor Test for sweetness.
 - 1) Where is sample obtained?
 - 2) What do you do based on results on test?

Job Description of Area 1 No. 2 Operator Page 2

Heavy Cat Gasoline

- 1. Know flow of HCG through treaters from HCG pump to storage.
- 2. Know flow of fresh caustic from storage tank to treater and flow of spent caustic from HCGT to storage tanks, including pumps and valves.
- 3. In addition to flows, the treater should know:
 - a) Where caustic level should be in treater and how to control it.
 - b) How HCG and caustic is circulated through the treater.
 - c) What is the significance of the caustic circulating pump?
 - d) How much air should be in the treater.
 - e) How to grab sample and run sweetness test. What to do with results. How to grab sample and run caustic test. What to do with results.
 - f) How to run a Baume' on the caustic.
 - g) Know how to interpret Lab analyses of:
 - 1) Acid Oil
 - 2) Spent Caustic
 - 3) Action to be taken based on analysis.

Linde Treater

Storage Tanks.

- 1. What is the proper way to gauge tanks, to open and close valves?
- 2. Know what product goes to what tank.

L.C.G. Sweet Charge H.C.G. Slop

L.C.O. Spent Caustic

Range Oil

- 3. Know how and when to water gauge that? How to draw water off product tanks and slop tanks.
- 4. How is slop lines up to run into the main fractionator or to 1351 Tank.
- 5. How and where is a BS&W sample taken for Lab? What should BS&W level be and what should be some to keep it at specified level?
- 6. How is sweet charge lined up from Platformer to fill tank 101. From this same tank to Platformer.
- 7. Who is notified when tank is full?
- 8. What is the proper way to switch tanks. Why is there a "proper way"? What happens if switching not done properly?

Job Description of Area 1 No. 2 Operator Page 3

Chemical Feed

What chemical is fed where, to what, how much, and if diluted with what?

Safety

What safety precautions should be taken regarding:

- 1) Shot pots
- 2) Valves
- 3) Pressures

Log Sheets

How, when, and why are the log sheets made out.

The trainee should use this summary as a reference in becoming self sufficient as a Treater. If you don't know ask. If something is unusual, ask or tell the Supervisor.

Job Description of Area 1 No. 2 Operator Page 4

The following are the normal duties of the No. 2 Operator

- 1. Keep west trap (API separator) in good operating condition at all times.
- 2. Recover and prepare slop oil for feed stock.
- 3. Use Oliver Filter to dewater and deoil API separator sludge.
- 4. Control level of trap (API separator) at all times.
- 5. Keep any oil that might accumulate off south trap.
- 6. Check on oxidation ponds agitators.
- 7. Maintain operation of 561 sump pump and watch level.
- 8. Make sure line to retention pond is closed at east dike of 561 and 52 tank. Drain in parking lot in west RHRU.
- 9. Check out gasoline engine at trap every Friday, days, to make sure it will run and pump and that the gasoline tank is full.
- 10. Maintain operation of Sanitary sewer pumps at No. 1 Cooling Towers and at railroad track, and spray pond lift station pump.
- 11. Skim oil off API separators for reuse, and to keep oil layer at a minimum.

To Start Oliver

- 1. Reave speed on drum up.
- 2. Open water fill control valve, fill drum.
- 3. Mixer on
- 4. Open lower vacuum line all the way.
- 5. Open top vacuum line, crack open.
- 6. Start vacuum compressor with valve closed-after compressor picks up speed open valve.
- 7. Start water pump right away.
- 8. Close valve on top of Dog house Bottom 2 valves closed By-pass open on adder.
- 9. Adjust valves on precoat adder to open.
- 10. Set By-pass valve by hand to 40 to 50 lbs.
- 11. Put in 9-15 bags of precoat into inductor.
- 12. After adding precoat open by-pass valve all the way and close both to and from adder.
- 13. Start charge pump open discharge valve and be sure pump has suction when you have good pump suction open valve over dog house.
- 14. Open top vacuum line all the way and close the liquid valve to drum.
- 15. Make sure you have charge to drum, then start cutting blade.
- 16. After pulling vacuum of 20#, slow R.P.M.'s down on drum turn back to about 4#.

Shut Down Oliver

- 1. Shut down charge pump and close discharge valve.
- 2. Close over flow, open drain valve drain oliver drum.
- 3. Shut down elect. water pump.
- 4. Close vacuum suction valve, then shut down vacuum pump.
- 5. Close top and bottom vacuum lines.
- 6. Open wash line until screen is clean, rotate screen at full speed.
- 7. Pull knife blade all the way back.
- Leave mixer on until done cleaning.
- 9. Knock all remaining precoat off of drum.
- 10. Use water hose to wash sides off and inside of drum. Leave on wash line.
- 11. Shut valve off under drum, and open over flow, then open lower vacuum line and start elect. water pump and let the water go thru this line to clean also wash out control valve, shut off elect. water pump. By-pass open on water pump.
- 12. Open valve under drum and close over flow valve, then shut off wash line and close lower vacuum line.
- 13. Rinse oil from side, rinse out side and inside of drum.
- 14. Close drain valve under drum and open over flow valve, open auto. water control valve, fill up with water and let drum run in clean water all night.
- 15. Shut off mixer.

APPENDIX D

#2 OPERATOR JOB POSITION TEST

APPENDIX D

ROCK	ISLAND REFINING	CORP.	SCO	ORE:		ARTES CART COMMENT OF THE COMMENT OF
NOTE:	ALL QUESTIONS IN ORDER TO PA	MARKED WITH AN ASS THIS TEST.	(*) M	UST BE	ANSWERED	CORRECTLY
NAME:	<u> </u>	WIT	NESSED	BY:		
DATE:			GIVEN	BY:		,

AREA 1 NO. 2 OPERATOR TEST

1. Identify the tanks that you are responsible for, state their normal service, and where product goes that you are responsible for.

Numbers
52
54
58
60
61
552
554
557
558
559

What is the purpose of the light and heavy cat gasoline Merox Treaters?

Area Page	l No. 2 Operator Test 2
* 3	What three materials are required to obtain proper reaction to the Treaters?
* 4.	What Baume caustic do you use in light and heavy cat gasoline Merox Treaters?
5.	What is the proper temperature range for the Merox Treaters: Where are the temperatures read? How do you adjust to get the proper temperature on the two Treaters?
6.	How much and how often do you add Merox No. 2 to light and heavy cat gasoline treaters?
7.	How do you line up pump at 201 tank bottom to Platformer from 101 tank?

- 8. How do you line up caustic to and from Alky Unit?

9. Give Merox a shot.

10. Pump caustic back from LCG Merox Sand Filter.

11. What chemical injections are you responsible for? What are the injection rates?

12. Demonstrate pumping out of caustic.

13. Demonstrate bringing in new caustic.

Area 1 No. 2 Operator Test Page 4

14. Line up to put caustic to 52 tank.

15. What is the purpose of a salt drum? Which salt drums are you responsible for and what are you suppose to do at each shift?

*16. What steps would you follow to gauge a salt drum?

17. Why is obtaining a correct water gauge important? Why do you water gauge?

18. What problems are caused by a tank being overrun? Where does the oil go and what has to be done to correct the entire situation? If oil is reused, why is it so improtant for tank levels to be controlled so carefully? Do you have a list of the top gauges for each tank?

Area	1	No.	2	Operator	Test
Page	5				

*19. What must be done on tanks 54-58 before slop can be sent to Main Fractionator?

*20. What Be caustic do you use in Jet Treaters?

*21. What temperature on Kero to Jet do you run?

22. What is normal pressure on Jet Treater? Back Pressure? Reactor Pressure?

*23. How do you change Jet Reactor Caustic? Flow? How do you pump caustic over reactor? Flow?

24. What is the main purpose of the Trap?

Area 1 No. 2 Operator Test Page 6

*25. If red light comes on, showing high level and both lift pumps are running, what should be done to correct trouble?

26. Describe operations of Oliver. Start up Precoat, Clean up.
Where does oil from Filter go?

27. How hot should the slop oil tanks be run to break out the BS&W? What is the maximum BS&W that can be pumped to 52-54 tank?

28. Where are all sump pumps and number of pump, Breaker Bus?

29. Show how to pump from 2 & 2A to 52-54 tanks.

30. Show how to pump out of slop oil pit to 2 & 2A tanks.

31. Show how to drain out of one slop oil tank while pumping into the other.

32. If slop oil pump (P-696) is not working how do you pump slop oil into the breakout tanks?

33. Start up Ford pump at West API. Demonstrate how to prime it.

34. How does-water get from East API to Spray Pond? Where does it enter Spray Pond.

35. Show line up for putting East API to West API and Spray Pond.

*36. Show how to line Traps up for cleaning.

Area 1 No. 2 Operator Test Page 8

*37. List pump numbers and Bus Fack numbers that breakers are located on. For Treaters, Caustic Blending, Trap Area.

APPENDIX E



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

MAR | 1 1982

MEMORANDUM

OFFICE OF SOLID WASTE AND EMERGENCY RESPONSE

SUBJECT: Hazardous Waste Delisting Petitions

FROM

James D. Bunting

Acting Deputy Associate Enforcement Counsel

TO:

Regional Notification Contacts

The Waste Characterization Branch, OSW, has informed us that, pursuant to 40 CFR §260.20 and 22, OSW has made preliminary determinations to grant delisting petitions to the facilities listed in Attachment A. As you know, the Agency retains the authority to reverse these decisions if it receives additional information indicating that these wastes are hazardous under 40 CFR §261.11 or 40 CFR §261.30.

The determinations indicated will apply only to the Federal hazardous waste management system established under RCRA. States remain free to take any action they deem appropriate under their independent authority with regard to these wastes.

The authorized programs in some States include delisting provisions which, as indicated in the State's Memorandum of Agreement (MOA), require EPA review and concurrence as part of the State's delisting decisions. The Agency has reviewed the petitions from facilities in States within this category, and has indicated its concurrence by the determinations presented in Attachment A. In the list of petitioners in Attachment A; the States within this category are indicated by an asterisk (*).

Until the delisting is published in the Federal Register (the effective date of the delisting) we recommend the use of enforcement discretion, as discussed in Sarah Compton's memo of January 13, 1981, when dealing with these wastes at these facilities.

If there are any problems or questions about these actions please contact Myles Morse or William Sproat (Waste Characterization Branch, OSW (755-9187)).

Attachment

cc: M. Straus, OSW (WH-565B)

M. Morse, OSW (WH-565B)

W. Sproat, OSW (WH-565B)

T. Kimmel, OSW (WH-565B)

W. Miser, OSW (WH-565B)

Attachment A

Region	Facility Name	Hazardous Waste Exclusion	Location	<u>ID</u> No.
IV	*Intex Plastics Corporation	F005(a)	Corinth, MS	MSD096076781
V	Monsanto Chemical Intermediates Co.	K071(b)	Sauget, IL	ILD000802702
	Rock Island Refining Corporation	K049(c) K050(d) K051(c)	Indianapolis, IN	IND006417430
VII	Loxscreen Company Inc	F019(e)	Haytí, MO	MOD057758922
	Ramsey Corporation/ TRW Inc.	F006	Sullivan, MO	MOD094390416

(a) Temporary exclusion applies only to still bottom waste which has been ,, "air-cured" for at least five days.

(c) Temporary exclusion applies only in a land disposal scenario for this waste (d) This waste is not considered hazardous when mixed with other non-hazardous wastewaters at the facility. (see amendment to the mixture rule FR November 17, 1981).

⁽b) Representative samples to be analyzed by EPA/EP prior to disposal; waste which exceeds an extract concentration of 25 times the National Interim Primary Drinking Water Standard will be retreated or handled as a hazardous waste.

⁽e) Waste must be covered as a daily practice or each batch tested for total cyanide prior to disposal due to the Agency's concern about photoconversion. If total cyanide in the waste exceeds 10ppm the waste must be covered as a daily practice. Photoconversion test data may be submitted to eliminate this condition.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460 OFFICE OF SOLID WASTE

MAR 12 1982

OFFICE OF
SOLID WASTE AND EMERGENCY RESPONSE

Mr. William E. Laque Coordinator of Environmental Affairs Rock Island Refining Corporation P.O. Box 68007 Indianapolis, Indiana 46268

Dear Mr. Laque:

This letter confirms my telephone conversation with Mr. George W. Pendygraft of Baker and Daniels concerning the delisting petition filed by the Rock Island Refining Corporation. The Agency's Office of Solid Waste has completed a preliminary review of the petition and has indicated in the enclosed memorandum that the vacuum filter cake waste, listed for containing slop oil emulsion solids (K049), heat exchanger bundle cleaning sludges (K050), and API separator sludges (K051), is considered non-hazardous. This memorandum has been sent to the Regional Office of Enforcement. Any additional letters of confirmation may be obtained from Ms. Sally Swanson in the Regional Office. The temporary exclusion will appear in the Federal Register in the next few months.

Sincerely,

Sold b. Timmel

Todd A. Kimmell, Environmental Scientist Waste Characterization Branch Hazardous and Industrial Waste Division (WH-565B)

Enclosure

cc: Matt Straus (OSW) George Pendygraft

APPENDIX F

APPENDIX G

ENDORSEMENT OF INSURANCE



This endorsement forms a part of the policy to which attached, effective on the inception date of the policy unless otherwise stated herein.

(The following information is required only when this endorsement is issued subsequent to preparation of policy.)

Endorsement effective

Policy No.

Endorsement No.

Named Insured

Additional Premium \$ _____

Countersigned by Marcy Eller Guller (Authorized Representative)

This endorsement modifies such insurance as is afforded by the provisions of the policy relating to the following:

COMPREHENSIVE GENERAL LIABILITY INSURANCE
MANUFACTURERS AND CONTRACTORS LIABILITY INSURANCE
OWNERS, LANDLORDS AND TENANTS LIABILITY INSURANCE
SMP LIABILITY INSURANCE

HAZARDOUS WASTE FACILITIES — AMENDATORY PROVISIONS

It is agreed that the following additional provisions apply with respect to a Hazardous Waste Treatment, Storage, or Disposal Facility subject to the financial responsibility requirements of 40 CFR Part 264.147 or 265.147 (Environmental Protection Agency Regulations); provided that the name, address or location, and EPA Identification Number of such facility are shown in the Schedule below.

1. The following provisions apply, in place of the limits of liability provisions shown elsewhere in this policy, to the company's liability for damages because of bodily injury or property damage arising out of a sudden and accidental discharge, dispersal, release or escape of irritants, contaminants or pollutants from any facility shown in the Schedule of this endorsement.

Regardless of the number of: (1) facilities shown in the Schedule of this endorsement; (2) insureds under this policy; (3) persons or organizations which sustain bodily injury or property damage; or (4) claims made or suits brought:

- (a) the total liability of the company for all damages because of all bodily injury and all property damage shall not exceed the limit of liability shown in the Schedule of this endorsement as "aggregate;"
- (b) subject to (a), the total liability of the company for all damages because of all bodily injury and all property damage arising out of a single occurrence shall not exceed the limit of liability shown in the Schedule of this endorsement as "each occurrence."

For the purpose of determining the limit of the company's liability, all bodily injury and property damage arising out of a sudden and accidental discharge, dispersal, release or escape of irritants, contaminants or pollutants, including all bodily injury and property damage arising out of all subsequent exposure of persons and property to such substances, shall be considered as arising out of a single occurrence.

- 2. The company shall pay any applicable deductible amount and, upon notification of such payment, the named insured shall promptly reimburse the company for the amount so paid. This provision does not apply with respect to that amount of any deductible for which financial responsibility is demonstrated as specified in 40 CFR 264.147 (f) or 265.147 (f).
- 3. Neither the company nor the insured may terminate the insurance provided herein for any facility except by providing written notice to the other party and the Regional Administrator(s) of the EPA Region(s) in which such facility(ies) is (are) located. Termination by cancellation shall be effective no fewer than sixty (60) days after such written notice is received by the Regional Administrator; other termination shall be effective no fewer than thirty (30) days after receipt of such notice.

SCHEDULE

Name of Facility

Address or Location

EPA Identification Romber

ROCK ISLAND
REFINING CORPORATION

5000 W. 86TH STREET INDIANA

IND. 0064174*3*0

Limits of Liability

\$ 2,000,006ach occurrence ional Prefrand 0,000

-169-

APPENDIX H

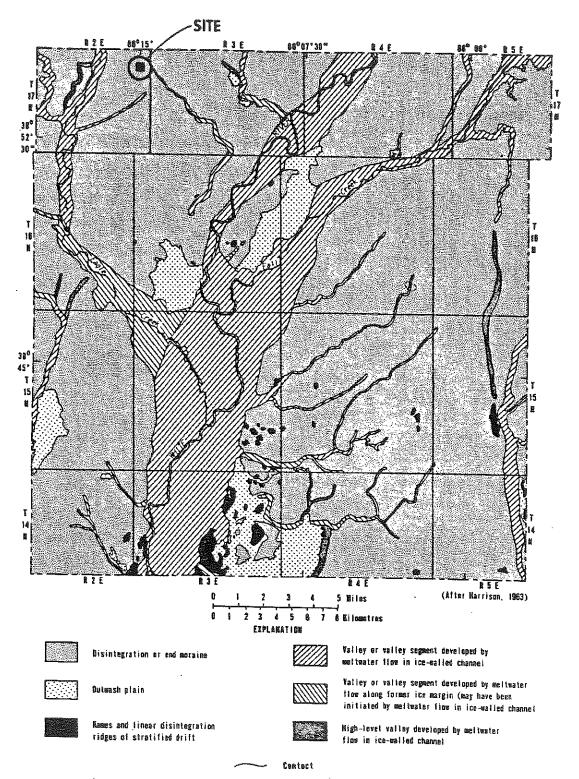
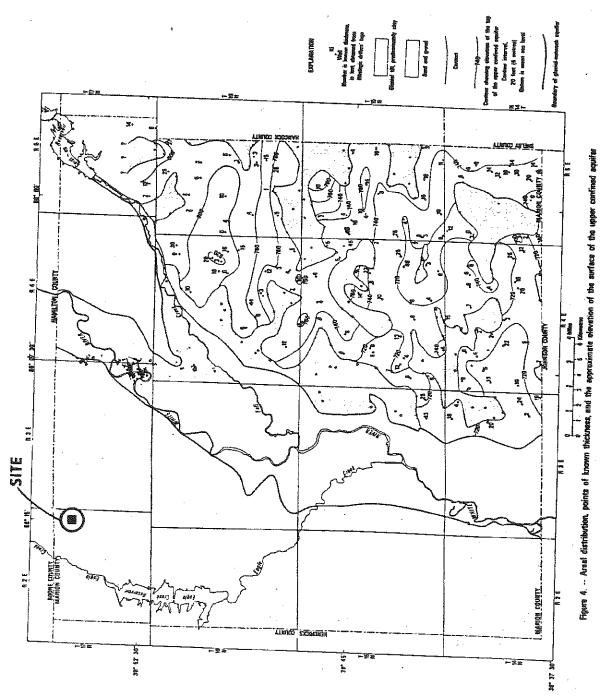


Figure 3. - Surficial gentogy of Marion County

Reference: U.S. Geological Survey Open File Report 75-312

APPENDIX I



Reference: U.S. Geological Survey Open File Report 75-312

ATEC ASSOCIATES

APPENDIX J

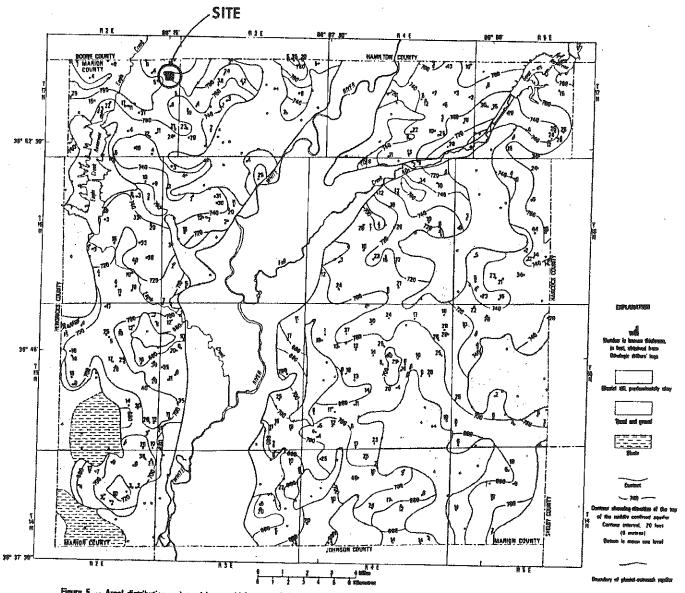
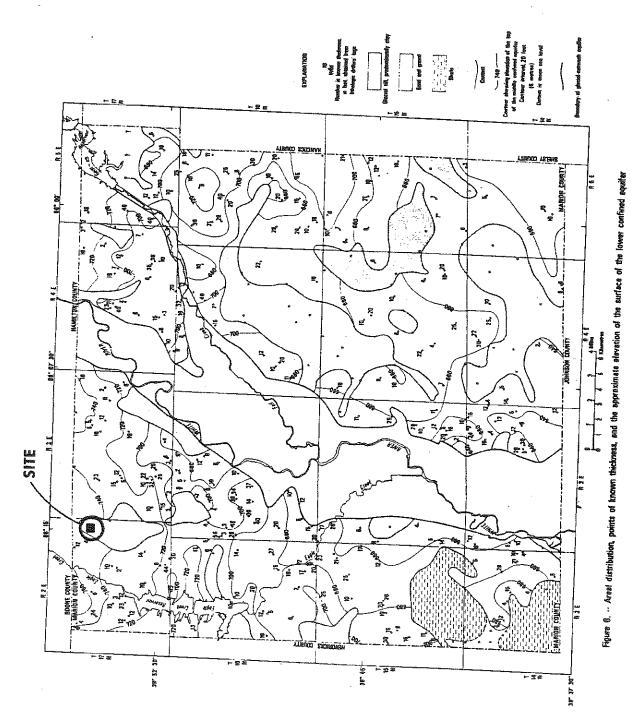


Figure 5. -- Areal distribution, points of known thickness, and the approximate elevation p1 the surface of the middle confined aquifer

Reference: U.S. Geological Survey Open File Report 75-312

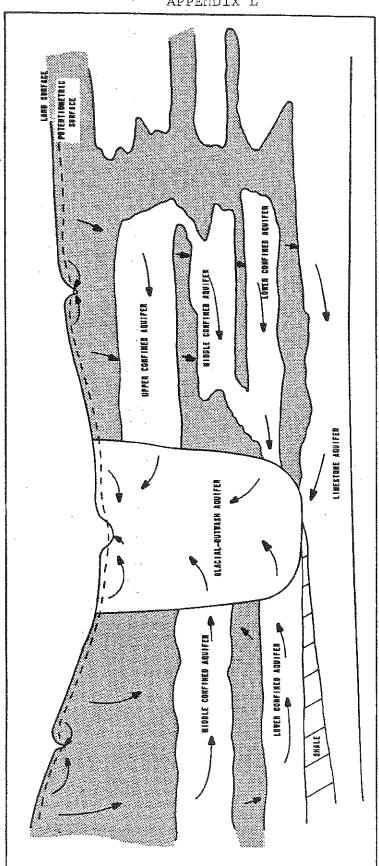
APPENDIX K



Reference: U.S. Geological Survey Open File Report 75-312

ATEC ASSOCIATES

APPENDIX L



. Figure 8.-- ideslized west to east cross saction with arrows indicating direction of ground-water flow

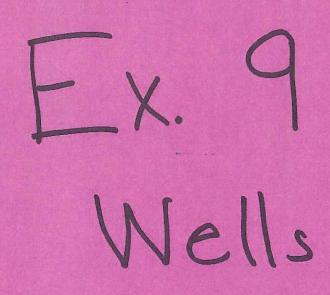
Reference: U.S. Geological Survey Open File Report 75-312

APPENDIX M

WATER WELL RECORDS

Figure B1: Approximate Water Well Location Map

Water Well Records



APPROXIMATE WATER WELL LOCATION MAP

LAND APPLICATION PROGRAM

ROCK ISLAND REFINING CORP.

INDIANAPOLIS, INDIANA

MISHAWAKA, INDIANA

I TEST

☐ PERMANENT

Job No. _ C-8603

	FROM	NATURAL	CPAIRING	
formation found — describe fully	Bapih to . Top of Stratum	Depth to Bottom of Stratum	Thickness of Strutum	Statle Water Level
Top Soil and Yellow Clay	0	15	15	
Soft blue clay	15	27	12	-
Hard blue clay	27	34	7	
Gritty Clay	34	36	2	
Brown Sandy Clay	36	43	7	
Sand and prayel	43	44	Ī	10*
Hard brown gritty clay	44	62		
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Date Started_

1-31-51

2-3-61 Finished_

Harry A. Smith

LAYNE-NORTHERN COMPANY

MISHAWAKA, INDIANA

17/2-NE, NE, 24

1 TEST

I I PERMANENT			
C 1 DIMANTAL		lob No.	C-8603
	100		
	OHER SALES		

FORMATION POUR		FROM NATURAL GROUND LEVEL				
FORMATION FOUND — DESCRIBE FULLY	Depth to Yop of Stratum	Depth to Bottom of Stratum	Thickness of Strutum	Slatic Water Level		
Top Soil and Fill Dirt	U	i	1			
Yellow Clay	1	46	45			
Fine Sand - Muddy	46	48	2			
Soft Sandy Clay	48	81	33			
Brown Gritty Clay	81	116	35			
Grifty Clay	116	135	19			
Shale	135					
-						
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		-				
			-			
-						
8198617 Inch diseases 1.1. 1.11	<u>I</u>			·		
8"86" inch diameter hole drilled by El Cable Tool Pipe left in hole	☐ Rotary	/ 🗌 Jettin	9	,		

Dale Started 2-10-61

_ Finished __

3-1-61

A. D. Hall

DIVISION OF WATER RESOURCES INDIANA DEPARTMENT OF CONSERVATION 609 STATE OFFICE BUILDING INDIANAPOLIS, INDIANA 46209 MElrose 3-6757

WATER WELL RECORD

INFORMATION ON WELL LOCATION County in which well was drilled: Civil Township:_ Congressional township:__ ___Range: ___ Number of section:____ (Fill in as completely as possible) Describe in your own words the well location with respect to nearby towns, roads, streets or distinctive landmarks: Name of owner:_ _ Address Harry H. Fox & Sosn Name of Well Drilling Contractor: houte 6. Shelbyville, Indiana. e of Drilling Equipment Operator: Cedric Hoban. INFORMATION ON THE WELL Completed depth of well: 285 ft. Date well was completed: 11-2-55 Diameter of outside casing or drive pipe: 4" _____Length: 189'4" Diameter of inside casing or liner:_______Length:______ Diameter of Screen: Length: Slot size: Drilled Gravel Pack Driven Other____ Type of Well: Use of Well: For home For industry For public supply Stock Method of Drilling: - Cable Tools (Rotary Rev. Retary) Jet [] Driven | Static water level in completed well (Distance from ground to water level) 85 ft. Bailer Test: Hours tested 2 Rate 7 g.p.m. Drawdown 115 ft. (Difference between static level and water Pumping Test: Hours tested Rate g.p.m. Drawdown ft. level at end of test) Signature Harry H. Fox & Sons. Date ___ 11-2-65

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

WATER WELL LCG		•	,	: 3:8:
DRMATIONS (Color, type of material, hardness, etc.)	From	To		COUNTY
Yellow clay, Blue clay, Packed gravel, dry,	0°	7 ¹ 25 ¹ 30 ¹	Map log log	, ALIN
Gray sandy clay, Dry packed sand, Gray clay.	30' 130'	130' 137'	classified se located ated	ANAMAN SELECTION OF SELECTION O
Brown clay, Dry gravel, Gray sandy clay.	137° 150° 161°	150' 161' 164'	1	na Svalt venicus con a c
Slate, Stone,	164' 179' 201'	179' 201' 285'	By By 1221	Digit dilli
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La La			66 1	W 1 W
REMARKS: T.D. is 285 ft. Finished in lime-sto	ne.	-	on ck lon.	SEC
85 ft. to static water-level. Tested at 9 lowers to 115 ft. Pumped well 3 hrs. till	GPM wate	er nd clea	1.	Re
slitted on Marion Co. balank may by left 3-27-69		-	Anguara Anguar	W C

This Water Well Record form is designed to record the most essential data concerning a ter well. We request that you be as accurate as possible in recording this information as may be of great assistance in the planning and development of new water supplies.

INSTRUCTIONS

'n accurate location of the well is equally as important as an accurate well log. include all information possible in the space provided for well location.

As specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted thin thirty days after the completion of a well to the Division of Water Resources, Indiana

7	WATER WELL LOG			- 4
	FORMATIONS (Color, type of material, hardness, etc.)	From	То	COUNT Topo. El. of Depth Well I
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	INSTRUCTIONS			

INSTRUCTIONS

This Water Well Record form is designed to record the most essential data concerning 2 This Water Well Record form is designed to record the most essential data contents a sater well. We request that you be as accurate as possible in recording this information as and development of new water supplies. be of great assistance in the planning and development of new water supplies. An accurate location of the well is equally as important as an accurate well log. lease include all information possible in the space provided for well location.

As specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted ithin thirty days after the completion of a well to the Division of Water Resources, Indiana

The state of the s STATE OFFICE BUILDING INDIANAPOLIS, INDIANA 46209 MElrose 3-6757

WATER WELL RECORD

Carron State of the Company	SSTITUTE CONTRACTOR
	25 × 26 5

en en	· INFORMATION ON WELL LOCATION
	County in which well was drilled: The Civil Township:
	Congressional township: Range:
	Describe in your own words the well location with respect to nearby towns, roads, streets
	or distinctive landmarks:
ATRICA .	
	Name of owner: EX.9 1 1000
	Name of Well Drilling Contractor: Earl H. Merritt Well Drilling Co., Inc.
	Address: 2998 Westlane Rd.
	Name of Drilling Equipment Operator:
	INFORMATION ON THE WELL
	smpleted depth of well: 17 ft. Date well was completed: Aug. 29, 1969
	Diameter of outside casing or drive pipe: 4" Length:
	Diameter of inside casing or liner:Length:
	Diameter of Screen: 3" Length: // Slot size: #8
	Type of Well: Drilled x Gravel Pack Driven Other
	Use of Well: For home For industry X For public supply Stock
	Method of Drilling: Cable Tools X Rotary Rev. Rotary Jet Driven
	Static water level in completed well (Distance from Manual)
	Bailer Test: Hours tested Rate 10 g.p.m. Drawdown ft. (Difference between
923	Pumping Test: Hours tested 2 Rate 5 g.p.m. Drawdown 20 ft. level at end of test)
	g.p.m. brawdown 20 It. level at end of test)
¥°5300x	
	Signature Bladley
7.58	Date
	FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET
	-189 - SEP 2 ₹ 1930 -
S	-107

	WATER WELL LOG					J
	FORMATIONS (Color, type of material, hardness, etc.)	From	То	Well Court Field Acc.	. CO	
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INSTRUCTIONS

This Water Well Record form is designed to record the most essential data concerning a Water well. We request that you be as accurate as possible in recording this information as it may be of great assistance in the planning and development of new water supplies.

An accurate location of the well is equally as important as an accurate well log. se include all information possible in the space provided for well location.

As specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted within thirty days after the completion of a well to the Division of Water

		6 4 A m	1	(Y	,		REST	
	COUNTY	MAR	1011	twp <i>[7N]</i> RG	E. 2E	N NE SEC	24	Subdivision Name
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	Courthouse Locati	on By	Date		Ft E of WL.	Bedrock elevation	745000	
	Location accepted	w/o verification b	BRUN	(12/28/79	Ft S of NL.	Aquifer elevation		Lot Number
			*	WATE	R WELL RECORD			
DUNTY MAP		O N. GEOR	,	A.,				PERMIT NO.
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					6087625 30 8		· · · · · · · · · · · · · · · · · · ·	

STATE OFFICE BUILDING INDIANAPOLIS, INDIANA 46204 Telephone 633-5267 Area Code 317

WATER WELL RECORD

· ·	A TOUGHT TO THE TOTAL TO THE TOTAL T
ELL LOCATION	(Fill in completely - Refer to instruction sheet)
County in which well was drill	ledCivil Township
Driving directions to the well	location: Include County Road Names, Numbers, Subdivision Name propriet, distinctive landmarks, etc.
•	
NAME OF WELL OWNER an	d/or BUILDING CONTRACTOR
Well Owner	Address
	Address
	tor:
	Perator:
ELL INFORMATION	
Depth of well:	Date well was completed:
Diameter of casing or drive pip	re: Total Length:
Diameter of liner (if used):	Total Length:
Diameter of Screen:	Length: Slot Size:
Type of Well: Drilled	•
Use of Well: For Home	
Method of Drilling: Cable	e Tools Rotary Rev. Rotary Jet Bucket Rig
Static water level in completed	well (Distance from ground to water level)feet
	Rateg.p.m. Drawdownft. (Drawdown is the difference
	between static level and water Rateg.p.m. Drawdownft. level at end of test)
	Signature
	Date

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

(Well d. loes not fill out) COUNTY MAY DE TWP. 17N RGE 2E 45W 45W SEC 13 Subdivision Name Topo Map Zionsiille 7K Ft W of EL. Ground Elevation By _____ Pt N of SL. Field Located Depth to bedrock_____ Courthouse Location By _____ Date _____ Ft E of WL. Bedrock elevation_____ Location accepted w/o verification by TMB 7-75 Ft S of NL. Aquifer elevation _____ Lot Number ____ From water well log FORMATIONS (Color, type of material, hardness, etc.)

DIVISION OF WATER

DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA

STATE OFFICE BUILDING INDIANAPOLIS, INDIANA 46204 8

Telephone 633-5267 Area Code 317

,	WATER WELL RECORD
WELL LOCATION .	(Fill in completely - Refer to instruction sheet)
County in which well was d	
Driving directions to the we	Il location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive landmarks, etc.
	ETT Store
120/ed	
NAME OF WELL OWNER:	and/or BUILDING CONTRACTOR
Well Owner	
Building Contractor	
Name of Well Drilling Contr	Addressactor:
Address	
	Operator:
0 1 1	
WELL INFORMATION	
Depth of well:	The way was conspicted.
Diameter of casing or drive	pipe: Total Length:
Diameter of liner (if used):	Total Length:
Diameter of Screen:	t Length: Slot Size: 1/4
Type of Well: Drilled	
Use of Well: For Home	For Industry For Public Supply Stock
Method of Drilling: Ca	ble Tools Rotary Rev. Rotary Jet Bucket Rig
Static water level in complet	red well (Distance from ground to water level)feet
	tod Day
	tedRateg.p.mDrawdownft. (Drawdown is the difference between static level and water level at end of test)
	Signature
	Date

DIVISION OF WATER

DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA STATE OFFICE BUILDING

INDIANAPOLIS, INDIANA 46204 Telephone 633-5267 Area Code 317

WATER WELL RECORD

	WELL LOCATION (Fill in completely - Refer to instruction sheet)
	County in which well was drilled to the state of the Civil Township
	Driving directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive
	LLIA 3 lines reducted
	NAME OF WELL OWNER and/or BUILDING CONTRACTOR
	Well Owner & X 40 1 / 2008 Address
	Building Contractor Address
	Name of Well Drilling Contractor: ICALLACE WELL DRILLING, Lee
	Address R, K, 7 BOX 231 GREFD.
	Name of Well Drilling Contractor: 16ACCACE WELL DRICE, Lec. Address R, R, 7 Box 231 GREED. Name of Drilling Equipment Operator: HAS. L. WALLACE.
	WELL INFORMATION
	Depth of well: 45' Date well was completed: 4-11-80
	Diameter of liner (if used).
***	Total Leasth:
	Diameter of Screen: 4" Length: 3' Slot Size: 46
	Type of Well: Drilled Gravel Pack Driven Other Other
	Use of Well: For Home For Industry For Public Supply Stock
	Method of Drilling: Cable Tools Rotary Rev. Rotary Jet Bucket Rig
**	Static water level in completed well (Distance from ground to water level)
	Bailer Test: Hours Tested Rate g.p.m. Drawdown ft
	Pumping Test: Hours Tested AIR Rate 20 g.p.m. Drawdown ft. (Drawdown is the difference between static level and water level at end of test)
***	2/2000
	Date 7 - 8 - 80
12	Date 1 0 0

FOR ADMINISTRATIVE USE ONLY (Well driller does not fill out) COUNTY Medicion TWP. 17 N RGE, 2 F SCU 4 SCU SEC 13 Subdivision Name Topo Map 3 mill 2 5 FI W of EL. Field Located By PR Date 5/30/74 570 FI N of SL. Ground Elevation ES 5 Depth to bedrock_____ Courthouse Location By _____ Date _____ 57.0 Ft E of WL. Bedrock elevation____ Location accepted w/o verification by ______Ft S of NL. Aquifer elevation 786 Lot Number____ WATER WELL LOG FORMATIONS (Color, type of material, hardness, etc.)

DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA

and a second second second

STATE OFFICE BUILDING INDIANAPOLIS, INDIANA 46204 Telephone 633-5267 Area Code 317

INDIANA

WATER WELL RECORD

WELL LOCATION (Fill in completely - Refer to instruction sheet) County in which well was drilled County in which well was drilled County Road Names, Numbers, Subdivision Name, lot relating directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot relating landmarks, etc. NAME OF WELL OWNER and/or BUILDING CONTRACTOR Well Owner Tolson Address Building Contractor Address Name of Well Drilling Contractor:	number, distinctive
NAME OF WELL OWNER and/or BUILDING CONTRACTOR Well Owner	number, distinctiv
NAME OF WELL OWNER and/or BUILDING CONTRACTOR Well Owner	number, distinctiv
NAME OF WELL OWNER and/or BUILDING CONTRACTOR Well Owner	
NAME OF WELL OWNER and/or BUILDING CONTRACTOR Well Owner	cst.
NAME OF WELL OWNER and/or BUILDING CONTRACTOR Well Owner	cxt
Well Owner	C. St.
Building Contractor Address	
Name of Wall Dailling C	
realise of well defilling Contractor: 113 was 10 12 16	
Address	
Name of Drilling Equipment Operator:	
WELL INFORMATION	
Depth of well:	
Diameter of casing or drive pipe: 4/1/2 Total Length:	· · · · · · · · · · · · · · · · · · ·
Diameter of liner (if used):	
Diameter of liner (if used): Total Length: Diameter of Screen: 4 Length: Slot Size: 11 (
Torres Charles and a Control of	
Type of Well: Drilled Gravel Pack Driven Other	
Use of Well: For Home For Industry For Public Supply	Stock
Method of Drilling: Cable Tools Rotary Rev. Rotary Jet Bucket Ri	e 🗀
Static water level in completed well (Distance from ground to water level)	-
Bailer Test: Hours TestedRateRom Drawdows 6	feet
	n is the difference tatic level and water d of test)
Signature It., O	
Date	

FOR ADMI' (Well / does not fill out) Roman TWP. 1700 RGE. 2= N= 1/2 No. 1/3 SEC. /3 COUNTY_ Subdivision Name Торо Мар ___ Ft W of EL. Ground Elevation _____ By _____ Date ____ Field Located Ft N of SL. Depth to bedrock_____ Courthouse Location By _____ Date ____ Ft E of WL. Bedrock elevation____ Location accepted w/o verification by _____ _____Ft S of NL. Aquifer elevation _____ Lot Number ____ WATER WELL LOG FORMATIONS (Color, type of material, hardness, etc.)

STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46204
Telephone 633-5267 Area Code 317

Peanil 3660

WATER WELL RECORD

(Fill in completely - Refer to instruction sheet) County in which well was drilled <u>barden</u> ——Civil Township_ Include County Road Names, Numbers, Subdivision Name, lot number, distinctive Driving directions to the well location: landmarks, etc. 3520 per hamion see N NAME OF WELL OWNER and/or BUILDING CONTRACTOR Well Owner ter Releading Address _____ Building Contractor Thr. Russeell Address _____ Name of Well Drilling Contractor: 10001200 1008 100. Address 3. C. For 21711, 1991. Name of Drilling Equipment Operator: Fill dones **ELL INFORMATION** Depth of well: 621 Date well was completed: ______10/16/75 Diameter of casing or drive pipe: 5 1 p.v.c. Total Length: 591 Diameter of lines (af used): 36" Total Length: Diameter of Screen: 5" Length: 21 Slot Size: -060 Type of Well: Drilled | Gravel Pack X Driven Other _____ Use of Well: For Home For Industry For Public Supply Stock Method of Drilling: Cable Tools Rotary Rev. Rotary Jet J Bucket Rig [X] Static water level in completed well (Distance from ground to water level) Bailer Test: Hours Tested Rate g.p.m. Drawdown ft. (Drawdown is the difference Pumping Test: Hours Tested 1 Rate g.p.m. Drawdown 55 ft. between static level and water level at end of test) Signature ____

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

DIVISION OF WATER DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA

STATE OFFICE BUILDING INDIANAPOLIS, INDIANA 46204

Telephone 633-5267 Area Code 317

WATER WELL RECORD

	WELL LOCATION (Fill in completely - Refer to instruction sheet)
	Country in which well as 1 :11 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	Driving directions to the well location. Include County Road Names, Numbers, Subdivision Name, lot number, distances
	TATIONIAIKS; EIC.
	GAT SIMES PERCENT
	NAME OF WELL OWNER and/or BUILDING CONTRACTOR
	Andrews Company of the Company of th
	Building Contractor Address
	Name of Well Drilling Contractor: 16ACCACE WELL DRILLING TOE
	Address N. M. Box 231 GR. FD.
	Name of Well Drilling Contractor: ICACCACE WELL DEILLING, Loc. Address R, K, 7 BOX 231 GREFD. Name of Drilling Equipment Operator: CHAS. R. WALLACE
	WELL INFORMATION
	Depth of well: 45' Date well was completed: L-11-80
	Depth of well:
	Diameter of liner (if used):
	Diameter of liner (if used):
	Slot Size: 7-0
	Type of Well: Drilled Gravel Pack Driven Other
	Use of Well: For Home For Industry For Public Supply Stock
	Method of Drilling: Cable Tools Rotary Rev. Rotary Jet Bucket Rig
	Static water level in completed well (Distance from 1997)
	Bailer Test: Hours Tested Rate
	Pumping Test: Hours Tosted // / P 20
	g.p.m. Drawdown ft. level at end of test)
* 5	Signature Charles Colonia
A CONTRACTOR	Dare 7-8-80
ES	Date

FOR ADMINISTRATIVE USE ONLY (Well driller does not fill out) COUNTY Marion TWP. 17.0 RGE 2E y SWy SW SEC 3 Subdivision Name

Topo Map Junsville 7'2 Ft W of EL Ground Elevation Subdivision Name Field Located _____ Date ______ Ft N of SL. Depth to bedrock_____ Courthouse Location By _____ Date ____ Ft E of WL. Bedrock elevation____ Location accepted w/o verification by UR 7-1/-50 FIS of NL. Aquifer elevation ______Lot Number____ 0 اصاً WATER WELL LOG FORMATIONS (Color, type of material, hardness, etc.)

-201

DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA STATE OFFICE BUILDING INDIANAPOLIS, INDIANA 46204 Telephone 633 5367

Telephone 633-5267 Area Code 317

WATER WELL RECORD

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County in which v	vell was drilled	completely - Re		rivil Tracca	-hi-				.:
Driving directions	to the well location:	include County	Road Names,	Numbers,	Subdivision	Name,	lot	number,	distinctive
	A grant of the second	ianumarks, etc.	. "	: .'	•				
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Эспасатом на применения на							·		
NAME OF WELL	OWNER and/or BUI	LDING CONTRA	CTOR						
Well Owne	Г		Address						
Building C	ontractor August	Juris Co	A J.J		P				
Name of Wall Dail	ing Contractor:	71	_ Address	المائل المائل		,			<u> </u>
	ing Contractor:		and the second s	<u> </u>		L. not	,		
Address	1 28 6		1.6 1.1	·					
Name of Drilling E	Equipment Operator:	- Carlotte Comment	<u> </u>	4.6-10-10	· · · · · · · · · · · · · · · · · · ·			·	
	VATION	-							
	•							~··	
Depth of well:			te well was co						
	or drive pipe:		Tot				•	·····	
Diameter of liner (if used):	·	Tot	al Length:					
Diameter of Screet	n;	ength:		_	Slot Size:	-Æ	-1 5		
	Orilled 💅	Gravel Pack				Other			
Use of Well: 1	For Home	For Indust			-		_	· · · · · · · · · · · · · · · · · · ·	
Method of Drilling	-		•	For	Public Sup				ck 📙
b		Rotary 2						lig 🗌	
Static water level in	n completed well (Di	stance from grour	nd to water lev	vel)					fect
Bailer Test: I	lours Tested	Rate	g.p.m. D	rawdown_	ft.				e difference
Pumping Test:	lours Tested	Rate //	g.p.m. D	rawdown.	ft.	be		static levend of test	el and water)
		_			a.)	٠٠ - محمد			A
		2	Signature					براميماء مهم	· ·

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FOR ADMINISTRATIVE USE ONLY (Well driller does not fill out)

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DIVISION OF WATER DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA STATE OFFICE BUILDING

INDIANAPOLIS, INDIANA 46204 Telephone 633-5267 Area Code 317

WATER WELL RECORD

WELL LUC	ATION (Fill in completely - Refer to instruction sheet)
County in whi	
Driving directi	ons to the well location: Include County Road Names, Numbers, Subdivision Name lot auchon in
	landmarks, etc.
	Rock Island Refinery
The second secon	
NAME OF WE	LL OWNER and/or BUILDING CONTRACTOR
Well Ov	wner Rock Delock Referency Address Rd 100 g Contractor Address Drilling Contractor: Hamille Black
xn -1 €.	Address Address 100
Building	g Contractor Address
Name of Well D	Orilling Contractor: Hamilton Blos
Address	
Name of Drillin	g Equipment Operator: Robert Edwards
WERE TRIES	
WELL INFO	RMATION
Depth of well: _	<u>555</u>
Diameter of casi	Date well was completed: 3-10-60
F3:	ing or drive pipe:
	Total Length
Diameter of Scre	een: Length: Slot Size:
	P. 11 1 1 7
	Gravel Pack Driven Other
Use of Well:	For Home For Industry
Method of Drillin	ng: Cable Tools X page
Static water land	let Buding
	I in completed well (Distance from ground to water level)
Bailer Test:	Hours Tested Rate g.p.m. Drawdown
Pumping Test:	Hours Tested 24 Rate 25-35 g.n.m. Denul 525 6 (Drawdown is the different between static level and wa
- •	Hours Tested 24 Rate 25-35g.p.m. Drawdown 525 ft. (Drawdown is the difference between static level and was level at end of test)
	Date Colations or date
	Date Colations or date
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FOR ADMINISTRATIVE USE ONLY (Well driller does not fill out)

TOPS

Rock Island

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DIVISION OF WATER DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA

STATE OFFICE BUILDING INDIANAPOLIS, INDIANA 46209 MElrose 3-6757

WATER WELL RECORD

INFORMATION ON WELL LOCATION

Name of Well Drilling Contractor: English & Son, Inc.
Address: R. R. # 1 Clayton, Indiana
Name of Drilling Equipment Operator: Dester Harness
INFORMATION ON THE WELL
Completed depth of well: 85 ft. Date well was completed: Narch 21, 1907
Diameter of outside casing or drive pipe: 52 in. Length: 70 ft.
Diameter of inside casing or liner: inLength:
Diameter of Screen: 4 in. Length: 72 ft. Slot size: 80
Type of Well: Drilled Gravel Pack Driven Other Use of Well: For home For industry For public supply Stock
Use of Well: For home For industry 🗵 For public supply 🗋 Stock 🗍
Method of Drilling: Cable Tools [] Rotary [] Rev. Rotary [] Jet [] Driven []
Static water level in completed well (Distance from ground to water level) 30 ft.
Bailer Test: Hours tested Rate 50 g.p.m. Drawdown 4 f. (Difference between
Pumping Test: Hours tested Rate g.p.m. Drawdown ft. level at end of test)
Signature Linetes /anness
note March 21, 1957

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INSTRUCTIONS

This Water Well Record form is designed to record the most essential data concerning a well. We request that you be as accurate as possible in recording this information as be of great assistance in the planning and development of new water supplies. An accurate location of the well is equally as important as an accurate well log. Please include all information possible in the space provided for well location.

As specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted rithin thirty days after the completion of a well to the Division of Water

DIVISION OF WATER DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA STATE OFFICE BUILDING INDIANAPOLIS, INDIANA, 46204

INDIANAPOLIS, INDIANA 46204 Telephone 633-5267 Area Code 317

Rimit # 1858

WATER WELL RECORD

WELL LOCATION (Fill in completely - Refer to instruction sheet)
County in which well was drilled MARION Civil Township
Driving directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinction landmarks, etc.
NAME OF WELL OWNER and/or BUILDING CONTRACTOR
Well Owner
Building Contractor Juck Aush Plly Address Name of Well Drilling Contractor: Hazzilton 13740
Name of Well Drilling Contractor: Hamilton Brow.
Address
Name of Drilling Equipment Operator: Lel Lush
WELL INFORMATION
Depth of well: 1/5'
Depth of well:
Diameter of liner (if used): Total Length: Total Length:
Diameter of Screen:
Diameter of Screen: Length: 5 Slot Size:
Type of Well: Drilled Gravel Pack Driven Other
Use of Well: For Home For Industry For Public Supply Stock
Method of Drilling: Cable Tools Rotary Rev. Rotary I Jet Bucket Rig
Static water level in completed well (Distance from ground to water level) 75' PL-600 fee
Bailer Test: Hours Tested 2 Rate / O R. P. D.
Pumping Test: Hours Tested Rate g.p.m. Drawdown tt. (Drawdown is the difference between static level and wate level at end of test)
Signature Cold Wash
Date

FOR ADM' TRATIVE USE ONLY (Well r does not fill out) COUNTY MAN TWP. 12 N RGE. 26 4 4 5EC_ Topo Map 3 Ft W of EL

Field Located By Date ______ Ft N of SL. Subdivision Name Ground Elevation_____ Depth to bedrock_____ Courthouse Location By _____ Date _____ Ft E of WL. Bedrock elevation_____ Location accepted w/o verification by _____ Ft S of NL. Aquifer elevation ______ Lot Number ____ water well log FORMATIONS (Color, type of material, hardness, etc.)

-209-

DIVISION OF WATER DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA STATE OFFICE BUILDING

STATE OFFICE BUILDING INDIANAPOLIS, INDIANA 46209

WATER WELL RECORD

Pamel # 572

INFORMATION ON WELL LOCATION

County in which well was drilled: ///////// Civil Township:
Congressional township: Range:
(Fill in as completely as possible) Describe in your own words the well location with respect to nearby towns, roads, streets
or distinctive landmarks:
Name of owner: 6 2006 - Manual Address: 6000 10 11
Name of Well Drilling Contractor: // / // // // //
Address:
Name of Drilling Equipment Operator:
TNFORMATION ON THE WELL
Completed depth of well: 76 ft. Date well was completed: -///>.
Diameter of outside casing or drive pipe: # # Length:
Diameter of inside casing or liner: Length:
Diameter of Screen: Length: 5 / 1/6 Slot size: 1/2/2
Type of Well: Drilled Gravel Pack Driven Other
Use of Well: For home For industry For public supply Stock
Method of Drilling: Cable Tools Rotary Rev. Rotary Jet Driven
Static water level in completed well (Distance from ground to water level)ft.
Bailer Test: Hours testedRateg.p.m. Drawdownft. (Difference between
static level and water g.p.m. Drawdownft. level at end of test)
Signature
FOR WELL LOG SPACE USE REVERSE OVER
FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

WATER WELL LOG			
FORMATIONS (Color, type of material, hardness, etc.)	From	То	COUNTY: Topo Map: Well log cl Courthouse Field locat Acc. w/o ve
Clara Clara	()		COUNTY: Topo Map: Well log clas Courthouse lo Field located Acc. w/o veri
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REMARKS:			elevation elevation elevation
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INSTRUCTIONS

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This Water Well Record form is designed to record the most essential data concerning a water well. We request that you be as accurate as possible in recording this information as if any be of great assistance in the planning and development of new water supplies.

An accurate location of the well is equally as important as an accurate well log.

Please include all information possible in the space provided for well location.

As specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted within thirty days after the completion of a well to the Division of Water

DIVISION OF WATER RESOURCES
INDIANA DEPARTMENT OF CONSERVATION
609 STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46209
MElrose 3-6757

WATER WELL RECORD

Permit #599

INFORMATION ON WELL LOCATION

	TO SECURE OF THE SECOND
1000 1000 1000	
	Name of Well Drilling Contractor: Earl H. Merritt Well Drilling Co.
200	Address: 2998 Westlane Rd.
	e of Drilling Equipment Operator: Don Kennedy
	INFORMATION ON THE WELL
樫	Completed depth of well: 10 ft. Date well was completed: Karch 2/1970
	Diameter of outside casing or drive pipe:
	Diameter of inside casing or liner:Length:
	Diameter of Screen: 3" Length: 11' Slot size: No.8
	Type of Well: Drilled
154	Use of Well: For home For industry E For public supply Stock
	Method of Drilling: Cable Tools 🖸 Rotary 🗋 Rev. Rotary 🗍 Jet 🗍 Driven 🗍
7	Static water level in completed well (Distance from ground to water level) 15 ft.
	Bailer Test: Hours tested 15 Rate 5 g.p.m. Drawdown ft. (Difference between
Boleston .	Pumping Test: Hours tested 2 Rate 5 g.p.m. Drawdown 20 ft. level at end of test)
_	
AND REPORTED TO	Signature Land B. Hadley
SANKERE	Date
15	S ELIC WELL LES AND LESS WILLIAM TO THE STATE OF THE STAT

FUR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET -212-

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			Gro Dep Bed Aqu	1/-	
870	<u> </u>		Ground e Depth to Bedrock Aquifer		
			0 0 1		

Top soil

yellow gravel

gray hardpan

REMARKS:

red gravel & sand

INSTRUCTIONS

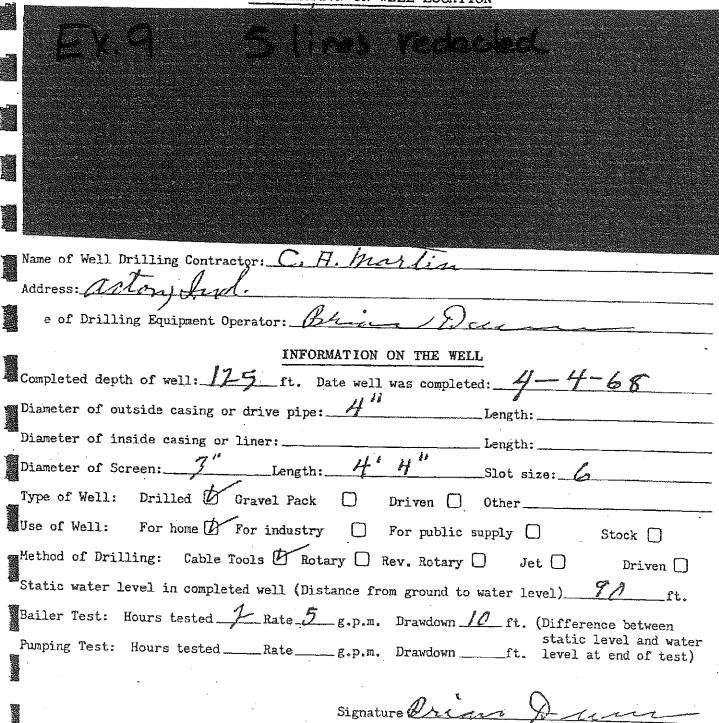
This Water Well Record form is designed to record the most essential data concerning a water well. We request that you be as accurate as possible in recording this information as it may be of great assistance in the planning and development of new water supplies.

in accurate location of the well is equally as important as an accurate well log. Please include all information possible in the space provided for well location.

As specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted within thirty days after the completion of a well to the Division of Water Resources, Indiana DIVISION OF WATER RESOURCES
INDIANA DEPARTMENT OF CONSERVATION
609 STATE OFFICE BUILDING
INDIANAPOLIS 9, INDIANA

WATER WELL RECORD

INFORMATION ON WELL LOCATION



FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

REMA	RKS:

INSTRUCTIONS

SEES 0 11 0 11 A P S E

This Water Well Record form is designed to record the most essential data concerning a water well. We request that you be as accurate as possible in recording this information as it may be of great assistance in the planning and development of new water supplies.

An accurate location of the well is equally as important as an accurate well log. ase include all information possible in the space provided for well location.

290

XO)

As specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted within thirty days after the completion of a well to the Division of Water Resources, Indiana Department of Conservation.

DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA STATE OFFICE BUILDING INDIANAPOLIS INDIANA 46004

INDIANAPOLIS, INDIANA 46204 Telephone 633-5267 Area Code 317

WATER WELL RECORD

Vimit # 2580

WELL LOC	CATION (Fill in completely - Refer to instruction shee	
County in whi	nich well was drilled	t)
Driving directi	tions to the well location: Include County Road Nanies, Numbers, landmarks, etc.	ship
NAME OF WE	ELL OWNER and/or BUILDING CONTRACTOR	
Well Ox	wner	
Buildin	ng Contractor Country & Mills	126/
Name of Well D	ng Contractor: Address Address Address Drilling Contractor:	Rockland Gr CX
Address		
Name of Drillin	ng Equipment Operator: Manue Merceros	
.ÆLL INFO	ORMATION	/ /
Diagram C	Date well was completed:	6/11/22
Diameter of casi	sing or drive pipe: Total Length: er (if used):	101
Diameter of line	er (if used): Total Length:	
	Length:	Slot Size: #16
	Gravel Pack Driven	
Jse of Well:	For Home	Other
Method of Drillir	ing: Cable Tools Port 77	ublic Supply Stock Stock
tatic water level	el in completed well (Distance from ground to water level)	let Bucket Rig
Sailer Test:	Hours Tested Rate g.p.m. Drawdown	fee
umping Test:	Hours Tested Rate G.p.m. Drawdown Drawdown	ft. (Drawdown is the difference between static level and water level at end of test)
	Signature /	in the second second
	Date 1/2 / /2	

FOR ADMINISTRATIVE USE ONLY (Well driller does not fill out) COUNTY______TWP. 17-1 RGE. ZE Subdivision Name ____Ft W of EL. Ground Elevation By _____ Date ____ Field Located Ft N of SL. Depth to bedrock_____ Courthouse Location By _____ Date ____ _____Ft E of WL. Bedrock elevation_____ Location accepted w/o verification by _____Ft S of NL. Aquifer elevation _____ Lot Number_____ 0 Water Well Log FORMATIONS (Color, type of material, hardness, etc.) Ser. Ser.

DIVISION OF WATER DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA STATE OFFICE BUILDING INDIANAPOLIS, INDIANA 46204

Telephone 633-5267 Area Code 317

-		ATER	WELL	RECORD	Varnet It 1:	<i>-</i>
	WELL LOCATION (F	ill in complete	ely - Refer to i	instruction sheet)		
	County in which well was drilled			Civil Township		
	Driving directions to the well locat	ion: Include landmarl	County Road	Varnes, Numbers, Subd	ivision Name, lot number, disti	nctive
		Lite				
						
	NAME OF WELL OWNER and for	BUILDING	ONTR ACTOR			
	Well Owner					
			Addr		11/	<u> </u>
	Name of Well Drilling Contractor:	1/2	Addr	ess	Aharmany of	
	Address		1 30- 20-	2 /104		
	Name of Drilling Equipment Opera	1/	17	4.1		
	S Eduburent obera	ior:				
	WELL INFORMATION					
	Depth of well:		Date well v	vas completed:	122	
حد :	Diameter of casing or drive pipe:	·				<u> </u>
	Diameter of liner (if used):			- Total Length:		
	Diameter of Screen:	Length:	2		Size: 27 C	
	Type of Well: Drilled 7	•		Driven 🗌		
	Use of Well: For Home	•	Industry [_		
	Method of Drilling: Cable Too			. Rotary [] Jet	Supply Stock Stock	J
	Static water level in completed well	Distance from	n mound to make	. Rotary [] Tet [Bucket Rig	
	Dauch less: House T	Rate	r ground to war	er level)		feet
	Pumping Test: Hours Tested	2 Data /	g.p.m	DrawdownDrawdown	_ft. (Drawdown is the differ between static level and v	rence water
	r	+ + + + + + + + + + + + + + + + +			ft. level at end of test)	
			Signature			
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DIVISION OF WATER DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA

STATE OFFICE BUILDING INDIANAPOLIS, INDIANA 46209

WATER WELL RECORD



INFORMATION ON WELL LOCATION

加速	
	Name of Well Drilling Contractor: ED SHERLOCK DRILLING CO.
	Address: 5709 RAHKE RD. INDIANA POLIS INDYCOIT
	ne of Drilling Equipment Operator: ED SHERLOCK
100	INFORMATION ON THE WELL
1,000,000,000	Completed depth of well: 95 ft. Date well was completed: SEPT 20
	Diameter of outside casing or drive pipe:
可	Diameter of inside casing or liner:Length:
	Diameter of Screen: Slot size: #60
, 3	Type of Well: Drilled Gravel Pack Driven Other
	Use of Well: For home For industry For public supply Stock
	Method of Drilling: Cable Tools Rotary Rev. Rotary Jet Driven
	Static water level in completed well (Distance from ground to water level) 50
	Bailer Test: Hours tested 2 Rate 6 g.p.m. Drawdown 38 ft. (Difference between
	Pumping Test: Hours tested 5 Rate 6 g.p.m. Drawdown 38 ft. level at end of test)
	Signature of the work
	Date
	FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

	WATER WELL LOG	4				2
	FORMATIONS (Color, type of material, hardness, etc.)	From	То	Well Cour Fiel Acc.	င္မ	
	HARDPAN GRAY	0	12	Well log clas Courthouse lo Field located Acc. w/o veri	COUNTY:_	
	HARDPAN GRAY	/2	32	classise lo		
	SAMO	.32	_36	lassified located red erificati	(<u> </u>	
	BLUECLAY	36	92	classified se located sated verification		
	BLUE CLAY SAND GRAVEL WATER B.	92	25			
				Date Date Date	TWP	F(Wel
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	REMARKS:			elevation o bedrock elevation elevation	₹ SEC	1
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INSTRUCTIONS

This Water Well Record form is designed to record the most essential data concerning a vater well. We request that you be as accurate as possible in recording this information as it may be of great assistance in the planning and development of new water supplies.

An accurate location of the well is equally as important as an accurate well log.

'lease include all information possible in the space provided for well location.

As specified in Chapter 6 of the Asta 10.7000 As specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted within thirty days after the completion of a well to the Division of Water

DIVISION OF WATER

DEPARTMENT OF NATURAL RESOURCES, STATE OF INDIANA STATE OFFICE BUILDING

1723

INDIANAPOLIS, INDIANA 46204 Telephone 633-5267 Area Code 317

WATER WELL RECORD

	WELL LOCATION (Fill in completely - Refer to instruction sheet)
	County in which well was drilled to the form to the Civil Township
	Driving directions to the well location: Include County Road Names, Numbers, Subdivision Name, lot number, distinctive
	- Cyg Alas Island
	NAME OF WELL OWNER and a REMEDING CONTRACT
	NAME OF WELL OWNER and/or BUILDING CONTRACTOR Well Owner ddress
	Building Contractor (1) Address Address
	Name of Well Drilling Contractor:
	Address El31 (Colon fall)
	Name of Drilling Equipment Operator:
	ELL INFORMATION
	Depth of well: // Date well was completed:
	Diameter of casing or drive pipe:
	Diameter of liner (if used):
	Diameter of Screen: Length: Slot Size:
	Type of Well: Drilled Gravel Pack Driven Other Other
	Use of Well: For Home For Industry For Public Supply Stock Method of Drilling: Cable Tools Rotary Rev. Rotary Jet Bucket Rig Static water level in completed well (Distance from ground to water level)
200	Method of Drilling: Cable Tools Rotary Rev. Rotary Jet Bucket Rig
	Static water level in completed well (Distance from ground to water level) feet Bailer Test: Hours Tested /- Base (All and All and A
	Bailer Test: Hours Tested Rate Rate Proposition Drawdown for the difference between static level and water Pumping Test: Hours Tested Rate Proposition Rate Proposition Rate Rate Rate Rate Rate Rate Rate Rate
	Det journe file Signature files & Just 19
	Date 19 - 2 / //

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-223-

FOR ADMINISTRATIVE USE ONLY (Well driller does not fill out) COUNTY MASSION TWP. 17 N RGE. 2 F NE 4 NE 4 NW SEC 13 Subdivision Name Topo Map 3 consville 72 (edge)
Field Located By I 95 Date 1969 Ft W of EL. Ground Elevation 895, 23 Depth to bedrock 171 Ft N of SL. Courthouse Location By _____ Date _ Bedrock elevation 7 2 4. Ft E of WL. Location accepted w/o verification by _ _Ft S of NL. Aquifer elevation _____ Lot Number_ 700'0'

LAYNE-NORTHERN COMPANY

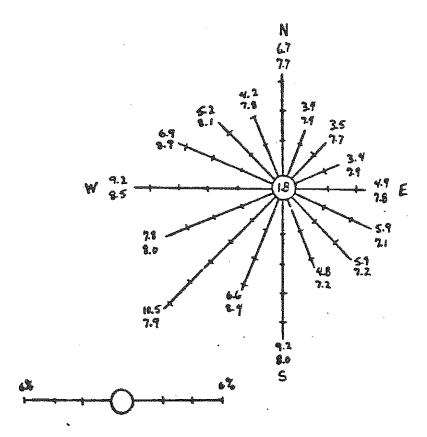
MCORPORATED

MISHAWAKA, INDIANA

LL LOG No. 2 City			·		County NATION Township FIRM Section 16
ation—From Land Descriptio ation—From Street or Road_					
FORMATION FOUND	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM	STATIC WATER LEVEL	ТЕМР.	REMARKS
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oleji end oravol	50	4,2			
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DRILLER

APPENDIX N



Annual Wind Rose for Indianapolis, Indiana based on data collected at Weir Cook Municipal Airport. Provided by the National Oceanic and Atmospheric Administration.

Top number is the percentage of observations having the indicated wind direction. Bottom number is the average wind speed (aph) when blowing from the indicated direction. Number in circle is the percent calm. Period of record is from 1965-74; number of observations is 29,216.